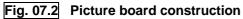
	SOURCE	_
B 07 ROOMS FINSHING – MATERIALS - EQUIPMENT		B 01
Products, quality characteristics etc. described below shall be specified. Services with brand names or order data shall be provided in the items with additive "or equal".		B 02
When the project is to be designed by the Bauamt or their A/E, brand names are permitted in the specification. The manufacturer's name should be followed by the works "or equal".		В 03
When the project is to be designed thru the Corps of Engineers in direct mode, the use of brand names is not allowed. The salient characteristics of each item must be stated instead. In some cases, a manufacturer's name can be stated,		B 04
along with the salient characteristics, when it is determined that it is needed to establish a level of quality. In this case, the work "or approved equal", will not follow the manufacturer's name as the salient characteristics will be the governing factors in approving a qualified product.		B 05
The use of brand names in a specification, direct or indirect, is for the sole purpose of setting a standard of quality, or to inform the contractor of an existing system that is specified to expand. Specifications will state, for example, "equipment must be compatible with the existing system".		B 06
If brand names are used in a specification, the following statement must be placed in front of the specification: "Where ever a brand name appears in this specification, its sole purpose is to be define the Covernment's standard of quality. It is not intended to imply that		В 07
help define the Government's standard of quality. It is not intended to imply that the brand name is favored or required".		B 08
All equipment and/or building elements in the description below, identified with the additional "Government furnished" shall be incorporated in the project design. The U.S. Government furnishes this equipment, delivers it to the point of		В 09
installation, erects it and connects it at existing connections including start-up. Project connections for all this equipment – where connections are required – shall be provided. The contractor has to participate in the start-up. It shall be specified that the contractor has to participate at this start-up.		B 10
All other equipment, furniture, signs and building elements shall be procured as part of the project.		B 11
As far as possible, at least three equal manufacturers and/or products are named for each product in the design guidelines. The products are listed either in the list of equal products or in text or in the list of equivalents and color shade list.		B 12
If possible, the designer shall determine one product series upon commencement of design, specify it, however, provide the items with the additive "or equal".		B 13
In the course of specification, the designer shall verify whether the listed manufacturer has changed the product or its quality. If the characteristic features or the quality are no longer existing, the product shall not be used. The lists serve the designers also at the review of offers with equivalent offers. All listed products will be considered as equal.		B 14
		B 15

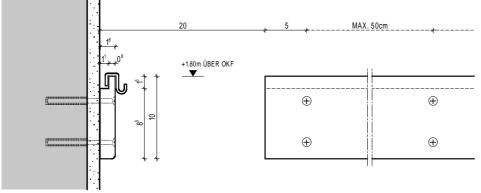
			SOURCE	
B 07.1		VING/BEDROOMS WITH ND KITCHENETTE)		B 01
B 07.1.1	BEDROOMS (with o	closets and kitchenette):		B 02
plasterboard s leveled and 2 Gypsum plas	tud walls are acceptab x painted. terboard stud walls	ered, with plaster MG P II; gypsum ple; as exception: these shall be spattled, or other lightweight partition walls are proval from USAREUR ODCSENGR is	DIN 18 550 T2	B 03
obtained prio For type and c	r to commencement olor selection, see color on values of walls, see	of design. or schedule	B 08 B 03.2.1	B 04
Walls kitchen	ette	far as visible - on top of countertop up to		B 05
niche for insta ceiling. The ti	allation of refrigerator	vill be tiled in the area of kitchenette. The will be tiled on three sides from floor up to I and at back walls at least 10 cm below the		B 06
Tiles shall be: Format: Product:		10 x 10 V+B UNIT ONE		B 07
Alternative ma	kes are:	OSTARA AGROB BUCHTAL		B 08
Article no. and	color shade:	see list of equal products - color shade list	B 08 Page 197-198	
The connect permaelastica	ion joints between lly.	countertop and tiles shall be sealed		B 09
		y bedroom): of solid wood (RAMIN) 100/18 mm, with dge, 5 x 15 mm, rounded bottom edge.		B 10
Fastening on 60 cm). The finished with tr	the wall with count picture boards shall ansparent silk lacquer	ersunk screws at regular distance (max. be painted to match wall color tone and		B 11
Distance from To be only ins	doors and corners: a talled on walls, suitab	edge of finished floor level. oprox. 20 cm. le for mounting of at least 80 cm long rails. urnished as one piece without joint and		B 12
5 hooks will be Product: Art. no.:	e planned per m:	HYDROMEC 30-0126-0102		B 13
Picture board	corridor	see	Page 122	B 14
				B 15

		SOURCE	
B 07.1.1.3 Window sills (insid			B 01
Window sills shall be manufactured of Grain up to	of cast stone 6 mm		
Minimum thickness	30 mm		D 00
all exposed sides sanded and polish Color and design	ed		B 02
acc. to	DASAG/floor covering		
Alternative makes are	DEOLIT Cook II. Deture a vertein /		B 03
Alternative makes are:	REOLIT GmbH, Betwonwerkstein/ Naturstein		Б 03
	BUSSE Marmor- und Betonwerke GmbH		
	BAUSTOFFWERK Unterfahlheim		B 04
Article no. and color shade	see list of equal products	B 08	
	color shade list	Page 197-198	
B 07.1.1.4 Floors:			B 05
Floor composition with floating scre	ed (cement screed); to be finished with 2		
mm thick rubber course finish.	nal aard		
The joints shall be pointed with therr	nai cord.		B 06
Product:	FREUDENBERG		
Building material class:	noraplan stone no. 149 B 1		
Dullaring material class.			B 07
Alternative makes are:	SAARGUMMI		
	DUNLOPLAN		
Article no. and color shade	see list of equal products	B 08	B 08
	color shade list	Page 197-198	
B 07.1.1.5 Baseboards:			
Baseboards made of solid wood (RA	AMIN), rounded, bottom line as rectangular		B 09
edge shall be installed.	,		
Dimensions:	110 / 18 mm		
Fastening of baseboards shall be at	regular intervals (max. 50 cm) on top of the		B 10
floor finish. The joint between floor	or finish and baseboard shall be filled with		
silicone. Openings and wall unever be pointed permaelastically with poly	nness permissible acc. to DIN 18 202 shall		
be pointed permaciastically with poly	ydrethane material.		B 11
	AMIN) shall be additionally attached to the		
baseboards, with rounded edges. Dimension	80 x 40 mm		
Execution as per	Fig. 07.1		B 12
Completed baseboards shall receive	ve mass paint finish; material and color		
shade see	ve mass paint milism, material and color	B 08	
		Page 197-198	B 13
	ards shall be installed with brooming laths. Ital installed baseboards required in order to		
observe wall distances.			_
			B 14
			B 15

SOURCE B 01 Fig. 07.1 Baseboard constructions B 02 11 DAUERELAST. **B** 03 FUGE permanently elastic joint **B** 04 B 05 LIEGEND, OHNE FEGELEISTE **B** 06 reclining, without molding **B** 07 MAX. 50cm **B** 08



DAUERELAST. FUGE permanently elastic joint



5 HAKEN JE LFM 5 hooks per metre

MIT FEGELEISTE

bdg10_2000

B 09

B 10

B 11

B 12

B 13

B 14

SOURCE B 01 Fig. 07.3 Pillar protection PUTZ - plaster **B** 02 FLIESE - tile FUSSLEISTE - base board **B** 03 DAUERELASTISCHE FUGE permanently elastic joint **B** 04 INNENSECHSKANTSCHRAUBEN SENKKOPF DIN 7991, WST 1.4301 PORENBETONDÜBEL W-PA ₄0⁸, 12⁹ 14⁵ hexagon bolt, counter-sunk screw, aerated concrete dowel B 05 Fig. 07.4 Pillar protection **B** 06 FLIESE FUSSLEISTE - base board **B** 07 447.80N **B** 08 DAUERELASTISCHE FUGE permanently elastic joint INNENSECHSKANTSCHRAUBEN 0² 0⁸ 13^{3 5} 13³⁵ SENKKOPF DIN 7991, WST 1.4301 PORENBETONDÜBEL W-PA **B** 09 285 hexagon bolt, counter-sunk screw, aerated concrete dowel Fig. 07.5 Corner protection **B** 10 INNENSECHSKANTSCHRAUBEN SENKKOPF DIN 7991, WST 1,4301 B 11 PORENBETONDÜBEL W-PA hexagon bolt, counter-sunk screw, aerated concrete dowel **B 12** B 13 The pillar protection and corner protection shall be made of solid beech wood. The **B** 14 surfaces shall be ground and enamelled transparent. Dry layer thickness at least 80 mü. Accomplishment see wall dimensioning to standard layouts. B 15

3		
	SOURCE	
B 07.1.1.6 Ceilings:		B 01
Ceilings shall be plastered and painted. A gypsum plasterboard planking or other planking is allowed in exceptions. This shall be coordinated with USAREUR upon commencement of design. Suspended ceilings shall be used		D 00
only to conceal exposed installed supply lines. Material and color see color schedule	B 08 Page 201	B 02
B 07.1.1.7 Curtain Rails and Curtains See Section, item 07.4.13.1	B 07 Page 187-188	B 03
B 07.1.1.7.1 Without Suspended Ceiling Curtain rails made of wood, internal guide rail made of white PVC with wooden		B 04
core, without joints and adhesive agents. 50 mm high pelmet made of plywood with white PVC coating. Construction with 3 continuous covering rails with extended running distances at covering rails. End pieces on both sides as well as 20 plastic runners with safety clip to avoid removal, if curtains are washed. Furthermore 2 x 90° bends at the ends to return the rails towards the wall. The		B 05
rail runs along the ceiling at a distance of 20 cm from the wall. Curtain rails shall not be installed along the entire room length. Rails shall extend at both sides approx. 20 cm beyond windows. E.g. Product: MHZ Article no.: 01-6112		B 06
B 07.1.1.2 Curtain Rail Support Case of Suspended Ceiling		B 07
The substructure for curtain rails, if suspended ceilings are required, consist of 20 cm wide wooden ledges, 2.5 cm thick, to be installed with steel angle on the exterior wall above suspended ceiling. The length is identical with the length of the curtain rail. The rail shall be additionally fastened on the suspended substructure.		B 08
B 07.1.1.3 Curtains / Side Curtains The curtains and side curtains see Section, item B 07.4.13.1,	B 07 Page 187-188	B 09
B 07.1.1.8 Equipment closet rooms: (Fig. 06.6) The equipment of closet rooms is shown on standard layouts and appropriate wall dimensions/sections. The following description includes one type. The constructions shall be adjusted to types and specified accordingly.		B 10
A deposit shelf of beech veneer multiplex boards, with lateral support, corner arrangement, chamfered edges, shall be provided in each walk-in closet. Thickness 40 mm		B 11
Width 60 cm with high load capacity. Boards shall be supported with steel supports of rectangular pipes diameter 40/2.5 mm provided with head and foot plates.		B 12
Angles made of material 1.4301 dimensions 45 / 40 / 5 mm		B 13
as supports shall be dowelled on the walls. Half pipe sections shall be welded at rectangular pipes as support for cloth rods.		B 14
		B 15

DESIGN GUIDELINES

OSAKEOK - Kestoration Program of Troop Bills	is - Standard 1+1		
		SOURCE	
		JUDITOL	D 04
Tubular pipe cloth rods material	1 4201		B 01
materiai surface	1.4301 grain 240		
diameter	33 mm		
wall thickness	2.5 mm		B 02
Multiplex boards shall be finished with to the wall shall be painted with the sa			B 03
Entrance door from corridor to apa Door from apartment into bedroom		B 07.4.4	
Standard layout Fig. 06.3	see		
Door to joint bathroom	see	B 07.4.5	B 04
Door to closet room	see	В	
Window bedroom:	see	B 07.4.11	
			B 05
			B 06
			B 00
			D 07
			B 07
			B 08
			B 09
			B 10
			B 11
			B 12
			D 40
			B 13
			B 14
			B 15
			<u> </u>

OUTREON TROOK	Diation Flogram of 1100p B	note Standard 111		
			SOURCE	
B 07.1.2	KITCHENETTES In living/bedrooms	:		B 01
		rooms e.g. standard layout Fig. 06.3		
kitchenette eq		ped with following listed equipment, the cured as part of the project. The scope of the equipment.		B 02
coverings, clar	mps etc. as well as the tion joints between	complete hardware, e.g. dowels, screws, ne connection to hot, cold and sewer water equipment and tiles shall be sealed		B 03
B 07.1.2.1	Equipment kitchen	ette		B 04
Kitchenette v	vidth	1.25 m (1.20) / 1.15 m (1.10) / 1.05 m (1.00)		B 05
Product: Metal bow han		BECKER MAPLE light imitation no. 14.1b chrome gloss		B 06
Handle arrang Article no. Hinges Product	ement bottom cabinet ement top cabinets	vertical 101 pot hinge HETTICH		В 07
Article no.		110		B 08
Alternative ma	kes are: ZEY LEI0			
Article no. Product BECK	ER are:	see section B 06	D 00 T0	B 09
		Fig. 06.08 – kitchenette 1.25 Fig. 06.09 – kitchenette 1.15 Fig. 06.10 – kitchenette 1.05	Page 69-72 Page 70-72 Page 71-72	B 10
				B 11
				B 12
				B 13
				B 14
				B 15

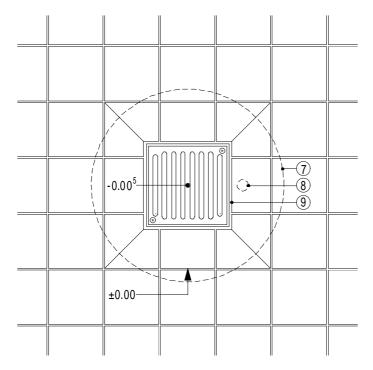
USANEUN - Nestur	allon Frogram of Troop Bill	els - Standard 1+1		
			SOURCE	
B 07.1.3	BATHROOM - Bedr	oom	,	B 01
The bathrooms modules.	s shall be generally	constructed as conventional bathroom		B 02
		wer cubicle including skirtings shall be also as specified standard design Fig. 06.1 up	B 06.1-	
be tested by an smoke distribut	n independent test lal	f prefabricated elements, the product shall poratory. Fire distribution of max. 25 and per ASTM 584 (NFPA 255) shall not be	B 06.5 ASTM 584	B 03
exceeded.			(NFPA 255)	B 04
"USAREUR" is a are to be const	necessary prior to cor tructed, a min. 5 mn	re lightweight walls, coordination with mmencement of design. If lightweight walls in thick wall plaster as subbase for damp provided in the wet room.		B 05
All walls will be 15 cm above su	spended ceiling.	MG P II and tiled to a height of approx. ealed up to top edge tiles in the moisture	DIN 18 550 T2	B 06
stress class II i Fig. 07.7 As tiles shall be	incl. water-proof conn	ections to shower tub borders and fittings	Mkbl ZDB	В 07
Format: Product:		10 x 10 V+B UNIT ONE		
Alternative make	es are:	OSTARA AGROB BUCHTAL		B 08
Article no. and o	color shade	see list of equal products - color shade list	B 08 Page 197-198	B 09
The bathroom s	_			
07.6) and a damp pro	ofing of rail.		Page 82	
Each bathroom screed can con-	shall receive cemes sist of two layers of E	ent screed. Sound insulation below the ETAFOAM. An effective damp proofing is n sound insulation. The screed including		B 11
the wall joint sha Sealing in moist Damp proofing	all be damp proofing a cure stress class II shall be raised on the		Mkbl ZDB	B 12
damp proofing le Floor inlets shal	evel).	oxy, back wash proof (Fig. 07.8) . The floor	Page 83	B 13
Product:		V+B UNIT ONE		
Alternative make		AGROB BUCHTAL		B 14
Article no. and o	color shade	see list of equal products - color shade list	B 08 Page 197-198	B 15

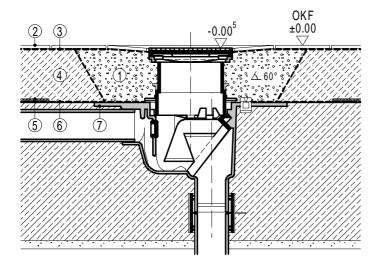
SOURCE B 01 Fig. 07.6 Door threshold sealing BODENBELAG / floor covering EDELSTAHLWINKEL / stainless steel angle B 02 DAUERELAST. FUGE / permanently elastic joint FLIESE / tile ABDICHTUNG / sealing ESTRICH / screed BEWEHRUNG / reinforcement **B** 03 **B** 04 B 05 ESTRICH / screed DÄMMUNG / insulation **B** 06 ABDICHTUNG / sealing EPOXY ETHAFOAM / insulation etafoam **B** 07 Fig. 07.7 Connection tub border **B** 08 **B** 09 PUTZ / mixed plaster ABDICHTUNG / sealing FLIESENKLEBER / tile adhesive **B** 10 FLIESE / tile DAUERELAST. ABDICHTUNG / permanently sealing CELLULOSESCHLAUCH / cellulose tube - DAUERELAST. FUGE / permanently joint B 11 **B** 12 **B** 13 **B** 14 B 15

SOURCE

Fig. 07.8 Floor drain – installation and sealing (lateral supply)

the floor drain in bathroom and/or all other floor drains shall be installed and sealed two-layered acc. to following sketch.





- 1 Epoxy resin filling
- 2 Tiles
- 3 Top sealing level
- 4 Screed 45°- 60° sloped
- 5 5mm Ethafoam
- 6 Bottom sealing level
- 7 Flange
- 8 Grounding
- 9 Permaelastical joint

В 01

B 02

B 03

B 04

B 05

B 06

B 07

B 08

B 09

B 10

B 11

B 12

B 13

B 14

		SOURCE	
B 07.1.3.3 Ceilings: Ceilings in bathrooms shall be galvanized, (hangers shall be ex	DIN 40 550	B 01	
PII, 5 mm thick, surface felted and p	ards), surface plastered with plaster MG ainted.	DIN 18 550 T2	B 02
The designer shall investigate the installed if required. The wall connection joints shall be s	steam diffusion, a vapor barrier shall be ealed.		B 03
Article no. and color shade	see list of equal products - color shade list	B 08 Page 201	B 04
Windows	see	B 07.4.11	B 05
B 07.1.3.4 Equipment Sanitary equipment	see	B 10	
			B 06
			B 07
			B 08
			B 09
			B 10
			B 11
			B 12
			B 13
			B 14
			B 15

	'		
		SOURCE	
B 07.1.4 JANITOR'S CLO	SET:		B 01
	nall be arranged as required. Janitor's closet a window; they shall be additionally provided em.		B 02
B 07.1.4.1 Walls: Plastered, with plaster MG P II, ti	ling at room height	DIN 18 550 T2	В 03
Alternative makes are:	OSTARA AGROB BUCHTAL		D 04
Article no. and color shade	see list of equal products - color shade list	B 08 Page 197-198	B 04
B 07.1.4.2 Floor:			B 05
damp proofing level. Door passa	ded on the rough floor or rough slab with a first ages shall be effectively sealed with angle rails l) [Fig. 07.6] and a damp proofing of rail.		B 06
Each janitor's closet shall receive screed can consist of two layers considered to be more important the wall joint shall be damp proof Damp proofing in moisture stres	Mkbl ZDB	B 07	
Damp proofing shall be raised on damp proofing level). The floor sl	WKOI ZDB	B 08	
Format: Product:	15 x 15 V+B MAXI-FLOOR-COMMERCIAL		
Alternative makes are:	OSTARA AGROB BUCHTAL		B 09
Article no. and color shade	see list of equal products - color shade list		B 10
Edge Tiles / Cove Base Tiles: Flat cove base tiles shall be inst tiles shall be installed above, sep	alled along the walls of the entire room. Wall aration with permaelastic joint.		B 11
Flat cove base tile: Format: Product:	15 / 10.7 cm V+B MAXI-FLOOR-COMMERCIAL		B 12
Alternative makes are:	OSTARA AGROB BUCHTAL		B 13
Article no. and color shade	see list of equal products - color shade list	B 08 Page 199-200	
			B 14
			B 15

USAREUR - Restoration Program of Troop B	illets - Standard 1+1		
		SOURCE	
B 07.1.4.3 Ceilings:			B 01
Plastered with plaster MG P II, surfa	ace smoothened and painted	DIN 18 550 T2	
Paint material and color shade	acc. to color schedule	B 08 Page 201	B 02
B 07.1.4.4 Equipment Clamping strip for broom with shelf a Product Article no.	and hooks ROTTER B-239x34		B 03
Wash tub made of cast stone	see	B 10	
Sanitary equipment	see	B 10	B 04
B 07.1.4.5 Sheet Steel Racks, The racks shall be fastened on wall,			B 05
	s made of material 1.4301. The racks shide elements, with the option for smaller		
larger racks at any time.	ide elements, with the option for smaller	Oi	B 06
Surface:	sanded, grain 240		
Height: approx. Depth:	200 cm 80 cm		
Width: (2x100 cm) approx. Number of shelves	200 cm min. 6, per rack		B 07
Load capacity of shelves	•		
min. Rack feet	200 kg per shelf plastic/for load distribution		B 08
Doors Windows	see see	B 07.4.6 B 07.4.11	
Fig. 07.9 Janitor's closet			B 09
Equipment shall be installed as desc	cribed		
	20 ± 20		B 10
*	***		
		*	B 11
		77.7	B 12
1	2		
	3 =	2	D 42
	3 -		B 13
	13	*	
			B 14
1 Stainless steel racks			
2 Floor drain3 Broom strip			B 15

	<u> </u>			
			SOURCE	
B 07.1.5	KITCHENS:			B 01
The ground f design. (Fig. (executed according to described standard	Page 94	B 02
can be constr		d with windows. In exceptional cases, they s with forced ventilation. Kitchens shall be ls towards the inside.		
B 07.1.5.1 Plastered with	Walls: plaster MG P II, tiling	room-high with tiles	DIN 18 550	B 03
			T2	B 04
Format: Product:		10 x 10 V+B UNIT ONE		
Alternative ma	akes are:	OSTARA AGROB BUCHTAL		B 05
Article no. and	d color shade	see list of equal products - color shade list	B 08 Page 197-198	B 06
proofing level.		rough floor or rough slab with a first damp be effectively sealed with angle rails of		B 07
	roofing. Moisture stre		Mkbl ZDB	B 08
Each kitchen shall receive cement screed. Sound insulation below the screed can consist of two layers of ETAFOAM. An effective damp proofing is considered to be more important than sound insulation. The screed including the wall joint shall be damp proofing. Moisture stress class II		Mkbl ZDB	В 09	
Damp proofing	g shall be raised on the	wall min 15 cm above the screed (second be tiled. The floor finishes consist of tiles.		
Format: Product:		15 x 15 V+B MAXI-FLOOR-COMMERCIAL		B 10
Alternative ma	akes are:	OSTARA AGROB BUCHTAL		B 11
Article no. and	d color shade	see list of equal products - color shade list	B 08 Page 199-200	B 12
				B 13
				B 14
				B 15

DESIGN GUIDELINES

		SOURCE	
Edge Tiles / Cove Base Tiles: Flat cove base tiles shall be installed along the walls of the entire room. Wall			
tiles shall be installed above, separati	on with permaelastic joint.		
Flat cove base tile: Format:	15 / 10.7 cm		B 02
Product:	V+B MAXI-FLOOR-COMMERCIAL		
Alternative makes are:	OSTARA AGROB BUCHTAL		B 03
Article no. and color shade	see list of equal products - color shade list	B 08 Page 199-200	B 04
B 07.1.5.3 Ceilings:			
Plastered with plaster MG PII and pai Paint material and color	nted acc. to color schedule	B 08 Page 201	B 05
B 07.1.5.4 Equipment Kitchen equipment on ground floor ac	cc. to plan Fig. 07.10	Page 94	B 06
			B 07
			B 08
			B 09
			B 10
			B 11
			B 12
			B 13
			B 14
			B 15

B 07.1.5.4 EQUIPMENT KITCHENS (furniture dimensions): The kitchens shall be equipped with following listed equipment, the kitchen equipment shall be procured as part of the project. The scope of service includes the entire kitchen equipment. The scope of work includes the complete hardware, e.g. dowels, screws, coverings, clamps etc. as well as the connection to hot, cold and sewer water lines, connection joints between equipment and tiles shall be sealed permaelastically. Kitchen on ground floor: Product: BECKER MAPLE light imitation no. 14.1 th chrome gloss Article no. 101 Handle arrangement bottom cabinets horizontal vertical Handle arrangement top cabinets vertical Prince HETTICH Article no. Alternative makes are: ZEIKO Leicht Consisting of (following details refer to make BECKER): 1 Bottom cabinet with 1 door and 2 shelves width 400 mm depth 570 mm height 720 mm (without work top) order no. U 40-30L 1 Bottom cabinet with 3 drawers and 1 front drawer width 500 mm depth 570 mm height 720 mm (without work top) order no. U 50-50 1 Cutlery insert order no. ZESE 150-0 Sink bottom cabinet with 2 doors width 1200 mm B 12	USAREUR	- Restoration Flogram or 1100	op billets - Standard 1+1			
The kitchens shall be equipped with following listed equipment, the kitchen equipment shall be procured as part of the project. The scope of service includes the entire kitchen equipment. The scope of work includes the complete hardware, e.g. dowels, screws, coverings, clamps etc. as well as the connection to hot, cold and sewer water lines, connection joints between equipment and tiles shall be sealed permaelastically. Kitchen on ground floor: Product: BECKER MAPLE light imitation no. 14.1b Chrome gloss Article no. Handle arrangement bottom cabinets horizontal vertical yot hinge Product HETTICH Article no. HETTICH Article no. HETTICH Article no. Leicht B 03 B 04 B 05 B 06 B 06 B 07 Consisting of (following details refer to make BECKER): B B 08 B 09 B 09 B 09 B 09 Consisting of (following details refer to make BECKER): B B 09 B 09 Consisting of (following details refer to make BECKER): B B 08 B 08 B 08 B 09 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B B 08 B 08 B 08 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B B 09 Consisting of (following details refer to make BECKER): B 00 Consisting of (following details refer to make BECKER): B 01 Consisting of (following details refer to make BECKER): B 01 Consisting of (following details refer to make BECKER): B 03 Consisting of (following details refer to make BECKER): B 04 Consisting of the product of the pro				SOURCE		
equipment shall be procured as part of the project. The scope of service includes the entire kitchen equipment. The scope of work includes the complete hardware, e.g. dowels, screws, coverings, clamps etc. as well as the connection to hot, cold and sewer water lines, connection joints between equipment and tiles shall be sealed permaelastically. Kitchen on ground floor: Product: BECKER MAPLE light imitation	B 07.1.5	.4 EQUIPMENT KI	TCHENS (furniture dimensions):		B 01	
coverings, clamps etc. as well as the connection to hot, cold and sewer water lines, connection joints between equipment and tiles shall be sealed permaelastically. Kitchen on ground floor: Product: BECKER MAPLE light imitation no. 14.1b Chrome gloss Article no. 101 Be 05 Handle arrangement bottom cabinets horizontal Handle arrangement top cabinets vertical Hinges pot hinge Product HETTICH Article no. 110 Alternative makes are: ZEIKO Leicht Be 07 Consisting of (following details refer to make BECKER): Be 08 Width 400 mm depth 570 mm height 720 mm (without work top) order no. U 40-30L Be 10 Be 11 Be 12	equipme	equipment shall be procured as part of the project. The scope of service				
MAPLE light imitation no. 14.1b chrome gloss Article no. 101 B 05 Handle arrangement bottom cabinets horizontal Handle arrangement top cabinets vertical hinges pot hinge Product HETTICH Article no. 110 Alternative makes are: ZEIKO Leicht B 07 Consisting of (following details refer to make BECKER): 1 Bottom cabinet with 1 door and 2 shelves width 400 mm depth 570 mm height 720 mm (without work top) order no. U 40-30L 1 Bottom cabinet with 3 drawers and 1 front drawer width 500 mm height 720 mm (without work top) order no. U 50-50 1 Cutlery insert order no. ZESE 150-0 1 Sink bottom cabinet with 2 doors width 1200 mm B 12	covering lines, c permaela	s, clamps etc. as well a onnection joints betwee astically.	s the connection to hot, cold and sewer water		B 03	
Metal bow handle Article no. Handle arrangement bottom cabinets Handle arrangement top cabinets Handle arrangement top cabinets Hinges Product Article no. Alternative makes are: ZEIKO Leicht B 07 Consisting of (following details refer to make BECKER): B B 08 B 08 B 08 B 09 B 09 B 09 Consisting of (following details refer to make BECKER): B B 08 Consisting of (following details refer to make BECKER): B B 08 B 08 B 08 B 08 Consisting of (following details refer to make BECKER): B B 08 B D 09 Consisting of (following details refer to make BECKER): B B 09 B D 09 Consisting of (following details refer to make BECKER): B D 09 B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): Consisting of (following details refer to make BECKER): B D 09 Consisting of (following details refer to make BECKER): Consisting of (following details refer to make BECKER): Consisting of (following details refer to make BECKER): Consisti	Product	:			B 04	
Hinges Product Article no. Alternative makes are: ZEIKO Leicht B 07 Consisting of (following details refer to make BECKER): 1 Bottom cabinet with 1 door and 2 shelves width 400 mm depth 570 mm height 720 mm (without work top) order no. 1 Bottom cabinet with 3 drawers and 1 front drawer width 500 mm depth 570 mm height 720 mm (without work top) order no. U 40-30L B 10 B 10 B 11 Cutlery insert order no. ZESE 150-0 I Sink bottom cabinet with 2 doors width 1200 mm B 12	Article no Handle a	o. arrangement bottom cabi	chrome gloss 101 inets horizontal		B 05	
Leicht Consisting of (following details refer to make BECKER): Bottom cabinet with 1 door and 2 shelves width 400 mm depth 570 mm height 720 mm (without work top) order no. U 40-30L Bottom cabinet with 3 drawers and 1 front drawer width 500 mm depth 570 mm height 720 mm (without work top) order no. U 50-50 Buttom cabinet with 3 drawers and 1 front drawer width 500 mm depth 570 mm height 720 mm (without work top) order no. U 50-50 Cutlery insert order no. ZESE 150-0 Sink bottom cabinet with 2 doors width 1200 mm Buttom Cabinet with 2 doors width 1200 mm	Hinges Product		pot hinge HETTICH		B 06	
(following details refer to make BECKER): 1 Bottom cabinet with 1 door and 2 shelves width	Alternati	ve makes are:			B 07	
Bottom cabinet with 1 door and 2 shelves width 400 mm depth 570 mm height 720 mm (without work top) order no. U 40-30L Bottom cabinet with 3 drawers and 1 front drawer width 500 mm depth 570 mm height 720 mm (without work top) order no. U 50-50 Cutlery insert order no. ZESE 150-0 Sink bottom cabinet with 2 doors width 1200 mm B 12			ECKER):			
depth 570 mm height 720 mm (without work top) order no. U 40-30L 1 Bottom cabinet with 3 drawers and 1 front drawer width 500 mm depth 570 mm height 720 mm (without work top) order no. U 50-50 1 Cutlery insert order no. ZESE 150-0 1 Sink bottom cabinet with 2 doors width 1200 mm B 09 B 10 B 11					B 08	
width 500 mm depth 570 mm height 720 mm (without work top) order no. U 50-50 1 Cutlery insert order no. ZESE 150-0 1 Sink bottom cabinet with 2 doors width 1200 mm B 10 B 10 B 11	depth heigh	t 5	570 mm 720 mm (without work top)		B 09	
order no. ZESE 150-0 1 Sink bottom cabinet with 2 doors width 1200 mm B 12	width depth heigh	5 t 7	500 mm 570 mm 720 mm (without work top)		B 10	
width 1200 mm B 12			ZESE 150-0		B 11	
	width depth	1	200 mm 570 mm		B 12	
height 720 mm (without work top) order no. US 120-30 with aluminum bottom order no. ZE 420-E B 13	order with a	no. aluminum bottom	JS 120-30		B 13	
1 Waste bin, tandem 2 x 15 I order no. ZE 33-E	2 x 1	5 l	ZE 33-E		B 14	
B 15	- · · · · ·				B 15	

	AREOR - Restoration Flogram of 1	oop Billots - Standard 111		
			SOURCE	
	Bottom cabinet with 1 door			B 01
2	shelves, one cabinet side w "MAPLE light" covered	ith		
	width	300 mm		
	depth	570 mm		B 02
	height order no.	720 mm (without work top) U30-30R		
				D 00
1	Work top one-sided additionally cover	red front edge with		B 03
	laminated material panel "M	aple light"		
	• •	.2000 mm 600 mm		B 04
	depth thickness	40 mm		B 04
	order no.	PSR 60 AHORN hell		
1	Recess for built-in sink in w	ork top		B 05
Ċ	order no.	ZAP30		
1	Built-in sink with 2 basins ar	ad drip part		
٠	material	stainless steel		B 06
	exterior sizes	1235x435 mm		
	basin depth product	150 mm RIEBER		
	order no.	E 123/2		B 07
1	Drain set for a double sink			
•	product	GEBERIT		
	article no.	152.818.11.1		B 08
1	Work top			
	width	450 mm 600 mm		
	depth thickness	40 mm		B 09
	order no.	PSR 60 AHORN hell		
1	Wall end valve with 1 interior	or corner 90°.		
	4 front sides, divided into 3	engths		B 10
	total length height	3600 mm 30 mm		
	order no.	ZP1-90/ZP3-90 (2x)		
_		. ,		B 11
2	Metal flat parts at front sides in niche of electric range sh			
	and additionally fastened wi	th screws made of material 1.4301,		D 40
	grinding grain 240, flush wit front side adjusted to profile			B 12
	work top	and cross section of		
	length	600 mm		B 13
	height depth	80 mm 10 mm		БІЗ
	thickness	2 mm		
				B 14
				B 15
				"

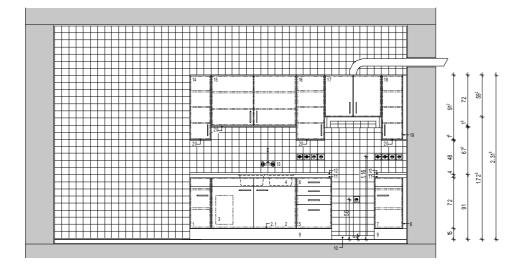
			SOURCE	
1	Base trim		000o <u>-</u>	B 01
·	width	approx. 2000 mm		
	height	150 mm		
	order no.	ZSB 15-18		D 00
	Б			B 02
1	Base trim	000 mm		
	width height	approx. 450 mm 150 mm		
	order no.	ZSB 15-18		B 03
	order no.	200 10 10		
3	Side base			
	at corners connect	ed with longitudinal		
	bases to bevel			B 04
	depth	approx. 550 mm		
	height	150 mm		
	order no.	ZSB 15-18		D 05
4	Cassial base below	ronge consisting of		B 05
1		rrange, consisting of front side and both		
		same as base trims ZSB 15-18,		
		multiplex panel 40 mm thick,		B 06
		with an aluminum panel, smooth, 2 mm thick.		B 00
		cabinet parts sealed with silicone.		
	Width	. 600 mm		
	height	50 mm		B 07
	depth	570 mm		
	T	de an en d O electron		
1	Top cabinet with 1			
	width	covered with "MAPLE light" 300 mm		B 08
	depth	340 mm		
	height	912 mm		
	order no.	HN 30-30L		
				B 09
1		nt for vapor escape as special cabinet		
		ecesses and drillings for the		
		acc. to direction of exhaust air device manufacturer		B 10
	width	800 mm		
	depth	340 mm		
	height order no.	592 mm HM80-30		
	order no.	1 1100-30		B 11
1	Top cabinet with 1	door and 3 shelves		
		rered with "MAPLE light"		
	width	400 mm		.
	depth	340 mm		B 12
	height	912 mm		
	order no.	HN 40-30R		
1	Top cohingt with 2	doors and 2 shelves		B 13
ı	and a middle wall	doors and 2 shelves		טוט ן
	width	1200 mm		
	depth	340 mm		
	height	720 mm		B 14
	order no.	H120-30		
				B 15
_				

			SOURCE	
1	Top cabinet with each 1 doc	r and 3 shelves		B 01
	and two side walls covered i			
	width	300 mm		
	depth	340 mm		B 02
	height	912 mm		B 02
	order no.	HN30-30R		
1	Shelf below top cabinet			D 00
	"MAPLE light", incl. 3-sided			B 03
		350 mm		
	depth thickness	320 mm 16 mm		
	order no.	KB32-B		B 04
4	Chalf halow ton achinat			
1	Shelf below top cabinet "MAPLE light", incl. 3-sided	edge band		
		300 mm		B 05
	depth	320 mm		
	thickness	16 mm		
	order no.	KB32-B		
1	Shelf below top cabinet			B 06
	"MAPLE light", incl. 3-sided	edge band		
	width ca.	400 mm		
	depth	320 mm		B 07
	thickness	16 mm		
	order no.	KB32-B		
1	Shelf below top cabinet			B 08
	"MAPLE light", incl. 3-sided			
	width ca.	1200 mm		
	depth	320 mm		
	thickness	16 mm		B 09
	order no.	KB32-B		
1	Shadow lath for top cabinet			
	width	30 – 50 mm		B 10
	height	912 mm BUD 03		
	order no.	BOD 03		
1	Shadow lath for top cabinet	20 50		B 11
	width	30 – 50 mm 912 mm		
	height order no.	BHN 03		
	order no.	BIN 03		
1	Vapor escape hood			B 12
	1-motor, with lighting, with n			
	size (w/h/d)	800 / 150 / 470 mm		
	carcass color	enamel white		B 13
	product	LORENZ		БІЗ
	type	UB 80		
		ng and exhaust air, 80 cm wide,		
	for installation below top cal			B 14
	and an integrated cooking p			
	Blowing out opening at top of	DI DACK SIDE.		
				B 15

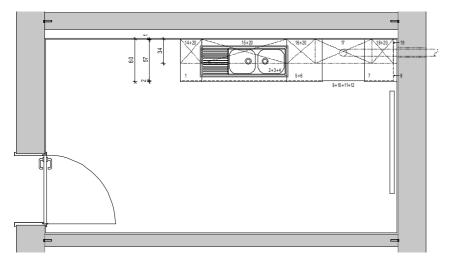
DESIGN GUIDELINES

SAREOR - Restoration Frogram of	or 1100p billets - Standard 1+1		
		SOURCE	
Connection with a flexible			B 01
length ca. incl. connection agents to	. 0,50 m		
duct The stainless steel pipe v	100 mm Ø		B 02
ventilation systems.	will be provided within the	B 12.9.2.	
		Page 94	
Product	TOTAL WALTHER Wachhausstraße 1		B 03
	76227 Karlsruhe Tel.: 0721 / 40 97-0		
	Fax: 0721 / 40 97-259		B 04
			B 05
			<u> </u>
			B 06
			B 07
			B 08
			B 09
			B 10
			B 11
			B 12
			D 42
			B 13
			B 14
			B 15

Fig. 07.10 Kitchen - floors







The following article numbers are referenced to make BECKER.

1	U30-30R	(U30-30L)
2	110 400 00	

US 120-30

2.1 ZE 420-E

ZE 33-E 3

4 RIEBER E 123/2

U 50-50 5

6 ZESE 150-0HN 60-30L

7 U 40-30L (U 40-30R)

8 BUD 03

ZSB 15-18

10 SPECIAL CONSTRUCTION

11 PSR 60

12 ZP 1-90 / ZP 3-90 (2x)

13 ZSB 15-90

14 HN 30-30L (HN 30-30R)

15 H 120-30

16 HN 40-30R (HN 40-30L)

17 HM 80-30

18 HN 30-30R (HN 30-30L)

19 BHN 03

20 KB 32-B

SOURCE

B 02

B 01

B 03

B 04

B 05

B 06

B 07

B 08

B 09

B 10

B 11

B 12

B 13

B 14

USARL	LOK - Kestoration Frogram of Troop t	Siliets - Standard 1+1		
			SOURCE	
B 07.	1.5.5 FIRE EXTINGUISH	IING SYSTEM (Kitchens)		B 01
suspe		e installed in the vapor exhaust hood and the meet the last criteria of the U.S. Underwriters	NFPA	B 02
install and th the pr	ed within the vapor exhaust he release of the fuse link, an	hoods. The pressure vessel shall not be ood, but in the cabinet above. In case of fire extinguishing agent will be sprayed through to the fire on the electric range and filter. If the system.		B 03
Produ Type Syste		TOTAL-WALTHER GUARDIAN 21 CENT - Certificate EX 3940		B 04
	re extinguishing system conta			B 05
1	pressure vessel for min. 7 ba			
	holder, micro switch and cab Vertical installation of pressu	lve, pressure gauge with display, le tensioning nut. re vessel in cabinet above the vapor		B 06
	exhaust hood. Filled with special extinguishi UL-certificate no. Approval by the Interior Minis official test institute for fire ex	EX 3470		В 07
	Exemplary product Product Type	PL-8/84 TOTAL-WALTHER GHS-GD		B 08
1	set of piping, consisting of 1 combination of stainless sta flexible hoses	eel pipes and		В 09
	UL certificate no.	EX 3940		
2	special nozzles of brass, and for installation in vapor exhau Adjustable with three screws	ist hood. and ball joint		B 10
	with thread NPT ¼", for appli cooking stations. Product	cable placement above TOTAL-WALTHER GHS-21 Cent		B 11
1	Type release consisting of as steel cable, guide pulleys, two fusible links.			B 12
	Release temperature Product Type	100°C TOTAL-WALTHER FL-Guard		B 13
1	special nozzle with special special special nozzle with special specia	r, as special equipment TOTAL-WALTHER		B 14
	Туре	GHS-Guard		
				B 15

SOURCE	
All above described parts shall have a UL-certificate (Underwriters Laboratory) as complete unit.	B 01
1 power shut-down protective type IP 43 consisting of:	B 02
 cable between potential-free contact of pressure vessel and interrupter. cable between main power connection and 	B 03
load break switch and range load break switch or solenoid valve (capacity acc. to range capacity) with restart button Product TOTAL-WALTHER	B 04
Type SWI-GHS 1 potential-free contact for the activation of acoustical or optical alarm system and simultaneous alarm of fire department 1 pilot light, green	B 05
The above described load break unit shall be installed in accordance with VDE requirements. The system shall be installed ready for operation, including load break switch for range and vapor escape hood cut-off	B 06
extinguishing device and cable sets as well as instruction, acceptance and operation documents see	B 07
Manufacturer of these systems is:	B 08
TOTAL-WALTHER Wachhausstrasse 1, 76227 Karlsruhe Tel.: 0721 / 4097-0 Fax: 0721 / 4097-259	B 09
	B 10
	B 11
	B 12
	B 13
	B 14
	B 15

- Transfer and Tra	<u>'</u>		_
		SOURCE	
D 07 4 E 0 E E 0 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0 E 1 E 0	IOT - to be leastly to 125 b	-	B 01
B 07.1.5.6 ELECTRIC RAN 1 Electric range	IGE – to be Installed in Kitchens		
The electric range will be	U.S. Army furnished, installed, anchored to		
wall, connected and taken	into operation.		D 00
The permaelastic filling of	connection joints between range and built-in		B 02
kitchen and the wall shall i	pe specified with the project.		
Total width approx.	615 mm		
Total height approx.	915 mm		B 03
Total depth approx. Range voltage	635 mm 380 V, 50 A, 50 Hz.		
Kange voltage	300 V, 30 A, 30 Hz.		
Doors	see	B 07.4	B 04
Windows	see	B 07.4.11	
			B 05
			B 06
			B 07
			B 08
			B 09
			B 10
			B 10
			D 44
			B 11
			D 40
			B 12
			D 40
			B 13
			B 14
			B 15

	Ŭ I			
			SOURCE	
B 07.1.6	CORRIDORS:			B 01
Plastering flus	tiled up to top edge	les up to ceiling, surface of plaster door jamb, tiles installed vertical, top row	DIN 18 550 T2	B 02
The base shall	be installed flush with	tiles.		B 03
Format: Thickness: Product:		25 / 12.5 cm 8 mm AGROB BUCHTAL		B 04
Alternative ma	kes are:	GAIL		
Paint material	and color:	see color shade list	B 08 Page 197-198	B 05
B 07.1.6.2	Floor:			B 06
Cast stone covering installation in mortar bed with recipe installation mortar of MG III, acc. to DIN 1053-1 DIN 1053-1				B 07
with reference Contrary to V accuracy. H	e to evenness. /OB/C DIN 18 333 fir	ordance with DIN 18 022, Table 3, Line 4 nishes shall be installed with increased c. to DIN 18 333, para. 3.1.2) between	DIN 18 022 DIN 18 333	B 08
aajaooni olab			para. 3.1.2	
Format: Product: Hardness class	s.	30 / 30 cm DASAG		B 09
Alternative ma		REOLIT GmbH, Betonwerkstein/		B 10
		Naturstein BUSSE Marmor- und Betonwerke GmbH BAUSTOFFWERK Unterfahlheim		B 11
Article no. and	color	see list of equal products color shade list	B 08 Page 199-200	
Door threshold Product: Hardness class	•	joint, adjusted in door niche DASAG		B 12
Alternative ma		REOLIT GmbH, Betonwerkstein/		B 13
, mornanve ma	100 arc.	Naturstein BUSSE Marmor- und Betonwerke GmbH		
		BAUSTOFFWERK Unterfahlheim	D 00	B 14
Article no. and	color	see list of equal products color shade list	B 08 Page 199-200	
				B 15

		SOURCE		
Baseboard: natural stone (granite), sanded and polished, installed flush with wall, glued in Buttering-Floating-method . Height adapted to remaining				
difference from wall finishes (see B C Height:				
Width:	24.5 cm		B 02	
Thickness min. Product	10 mm, material calibrated Bianco Cristallo			
Alternative makes are:	REOLIT GmbH, Betonwerkstein/ Naturstein		B 03	
	BUSSE Marmor- und Betonwerke GmbH BAUSTOFFWERK Unterfahlheim		D 04	
Article no. and color	see list of equal products color shade list	B 08 Page 199-200	B 04	
B 07.1.6.3 Ceilings:			B 05	
Suspended ceiling structure, open panels.	metal system, white coating, removable		B 06	
Wall connection with dummy joint no	. 56 – see pamphlet 16/OWAcoustic. cture, galvanized, hangers shall be Nonius		B 00	
Standard grid	62 ⁵ x 62 ⁵ cm		B 07	
Panel thickness: Product:	20 mm OW Acoustic			
System: Construction material class:	S 15 A 2		B 08	
Alternative makes are:	ARMSTRONG WILHELMI		B 09	
Article no. and color	see list of equal products color shade list	B 08 Page 201		
			B 10	
Doors Windows	see see	B 07.4 B 07.4.11		
			B 11	
			D 40	
			B 12	
			B 13	
			D 44	
			B 14	
			B 15	

SOURCE Fig. 07.11 Corridors floors **B** 01 B 02 1 111 ¥ 25 **B** 03 (2) 3 **B** 04 (4) 62⁵-1.375-B 05 **B** 06 Fig. 07.12 Corridors basement **B** 07 **B** 08 1 111 _{*} 25 _{*} 5 **B** 09 • 2 0 (3) 0 **B** 10 4 .62⁵-1.375-B 11 **B** 12 Montagehöhen Elektroteile: **B** 13 Blitzschutzschallgeber / flash light ? Türtaster / door button ? Steckdosen, Telefonanschlüsse, Druckknopfmelder / **B** 14 sockets, telephone connections, push button Schalter / switches ? Bilderleiste / picture board B 15

	19 11 11			
B 07.1.7	STAIRCASES:		SOURCE	B 01
B 07.1.7.1 Walls plastere	Walls: d with plaster MG P II	up to ceilina.	DIN 18 550	
Above tiles, plastered flush with tiles up to ceiling, surface smoothened and painted. Approx. 2.15 m high (top edge steel jamb corridor doors) tiled, tile			B 02	
Format: Thickness:	tical, top row horizonta	a or slopea. 25 / 12.5 cm 8 mm		
Product:		AGROB BUCHTAL		B 03
Alternative ma	kes are:	GAIL		
Article no. and	color	see list of equal products color shade list	B 08 Page 197-198	B 04
Paint material	and color	see color list (plaster)	B 08 Page 197-198	
B 07.1.7.2	Elear landings			B 05
		ortar bed with recipe installation mortar	DIN 1053-1	
Format:		30 / 30 cm		D 00
Product: Hardness class	S:	DASAG I		B 06
All floors shall be installed in accordance with DIN 18 022, Line 4 with reference to evenness. Contrary to VOB/C DIN 18 333 finishes shall be DIN 18 022 installed with increased accuracy. Height difference (acc. to DIN 18 333,			B 07	
para. 3.1.2) be	etween adjacent slab	s is not acceptable.	DIN 18 333 digit 3.1.2	
Alternative ma	kes are:	REOLIT GmbH, Betonwerkstein/Naturstein BUSSE Marmor- und Betonwerke GmbH BAUSTOFFWERK Unterfahlheim		B 08
Article no. and	color	see list of equal products color shade list	B 08 Page 199-200	B 09
Base accompli	shment of landings:			
Material:	_	granite, polished		
Format: Product:		24 / 24,5 / 1 cm Bianco Cristallo		B 10
Article no. and	color	see list of equal products color shade list	B 08 Page 199-200	
Ctair atoms			Ü	B 11
Stair steps Stair steps as	angular steps.			
Material and accomplishment same as above described cast stone finish. The front edge of step shall be provided with an anti-slip edge. The slip-proof edge shall be water blasted, sectional rubber inlays are unacceptable.				B 12
Base accomplishment of stairs:				
In order to m bases shall be	ake technically perfect accomplished as epis			
Material and a		e as above described base accomplishment prridors.		B 14
				B 15

		SOURCE	
B 07.1.7.3 Ceilings/Platform a		B 01	
Plastered with plaster MG P II, surfa	ce smoothened and painted 2 x	DIN 18 550 T2	
Paint material and color	see color schedule	B 08 Page 201	B 02
B 07.1.7.4 Stair Railing: Existing heavy-duty stair railings shall be reused, whenever possible, and adapted to present legal requirements and American regulations. New railings shall be constructed, if reuse of existing railings not possible. they shall have the following requirements: see		B 04.2.4.1	B 03
		2 0	B 04
B 07.1.7.5 Handrails: Minimum height:	1.10 m top edge of handrail at stair well		
Material: Tubular steel pipe:	and landing railing *) 1.4301, stainless steel diameter 44.5/2.9 mm		B 05
Surface:	sanded, grain 240		
*) Heights are measured vertically at	the front edge of the step.		B 06
Handrails shall be also installed on w Minimum height: Material:	0.96 m top edge of handrail *) 1.4301, stainless steel	B 04.2.4.1	В 07
Tubular steel pipe: Surface:	diameter 44.5/2.9 mm sanded, grain 240		
*) Heights are measured vertically at	-		B 08
	nstructed of tubular steel pipes and vertical leavy-duty execution and anchoring is very e painted.		B 09
Paint material and color	see	B 08	
	ow railing height, they shall be secured on les to protect against falling out, minimum ir railings.		B 10
Exit and entrance doors wood typ	e see	B 07.4	B 11
Exit and entrance doors wood type	see	B 07.4	
Staircase doors to corridors	see	B 07.4.10	
Windows	see	B 07.4.11	B 12
			B 13
			B 14
			B 15

	<u> </u>			
			SOURCE	
B 07.2	BASEMENT			B 01
removed, if t		cluding reinforced concrete slabs, shall be with a functioning damp proofing against structural damages.		B 02
construction		d and damp proofed according to 3 195, Part 4; appropriate thermal uired.	DIN 18 195 T 4 EnEV	В 03
concrete, with Wall thicknes	n open bottom s min.	placed. Light wells shall be of reinforced		B 04
dip galvanize	s shall be covered with d.	fastening agents made of material 1.4301 grates incl. angle frame. Grates to be hot		
The grate sh	of grate min. all be secured against	30 x 30 mm 400 kg/ m ² lifting. The light well has no bottom, the		B 05
		gravel (seepage). The backwash level of com edge of window shall be observed.		B 06
basement wa		shall be damp proofed vertically. Exterior ith perimeter damp proofing in the area of ge of surface water.		B 07
See also			B 03.2.3	
B 07.2.1 MECHANICAL ROOMS All mechanical rooms in the basement shall not be provided with suspended ceilings. Lines, cable runways shall be placed accurately underneath the ceiling.				B 08
В 07.2.1.1	Walls:			B 09
Wall surfaces and painted t	•	plaster MG P II, surface shall be felted	DIN 18 550 T2	
Paint materia	l and color:	see color schedule	B 08	B 10
B 07.2.1.2 Floor: Reinforced concrete slabs, single-layer, surface shall be smoothened, or reinforced concrete slabs with composite screed, upon admixture of hard aggregate grain of not less than 15 kg/m² (=1 cm wear course), smoothened Mkbl ZH 1.			Mkbl ZH 1/571	B 11
surface, surface R 10, surface shall be coated with PU-enamel, transparent, for dust bonding. Floors in power supply rooms shall be finished with cast stone slabs and			B 12	
provided with Execution (sa	a floor base. ame as floors corridors)	acc. to	В 07.1.7.2	
B 07.2.1.3 Ceilings: Ceiling surfaces shall be plastered with plaster MG PII, surface felted		DIN 18 550	B 13	
and painted t			T2	D 4.4
Paint materia Doors	I and color	see color schedule see	B 08 B 07.04.9	B 14
Windows		see	B 07	
				B 15

		SOURCE	
B 07.2.2 LATRINES IN BASEM (incl. shower cubicle			B 01
The latrines in basement shall be designs Fig. 07.13 – Fig. 07.15. One these rooms.		B 02	
Latrines are allocated to fire section "C	Corridor", partition walls to adjacent rooms ame fire resistance (F 90) as the corridor n and men.		B 03
B 07.2.2.1 Walls: Walls plastered with plaster MG P II ar	nd room-high tiled with tiles	DIN 18 550 T2	B 04
	10 x 10 V+B UNIT ONE		
	OSTARA AGROB BUCHTAL		B 05
	see list of equal products color shade list		B 06
B 07.2.2.2 Floor: The floors shall be provided on the rough floor or rough slab with a first damp proofing level. Door passages shall be effectively sealed with angle rails of			B 07
material and a damp proofing acc. to moisture latrines in basement shall receive cen screed can consist of two layers of E considered to be more important than	Mkbl ZDB	B 08	
the wall joint shall be damp proofing ac		Mkbl ZDB	В 09
	10 x 10 V+B PRO ARCHITECTURA		B 10
	OSTARA AGROB BUCHTAL	B 08	B 11
	see list of equal products color shade list	Page 199-200	
The outer row of the floor finish permaelastical joint shall be provided grade wall tiles.		B 12	
	10 x 10.3 cm		B 13
Alternative makes are:	V+B PRO ARCHITECTURA OSTARA		B 14
Article no. and color	AGROB BUCHTAL see list of equal products color shade list	B 08 Page 199-200	B 15

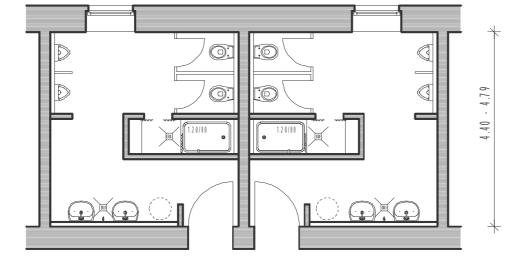
B 07.2.2.3 Ceilings:		SOURCE	B 01
Space conditions permitting, a suspended aluminum ceiling structure shall be installed without insulation layer, incl. all structures below and above. Only			
Nonius hangers shall be used.			B 02
Step angle sections shall be provided at transitions from wall to ceiling. Mounting height (minimum height) 2.25 m above floor level.			
Panel shape: Panel height: Panel width:	F 12 mm 84 mm		В 03
Module:	100 mm		
Type: Perforation:	aluminum, perforated B-perforation rate 22%, diameter 1.0 mm		B 04
Product: System:	RICHTER 16.1		
Alternative makes are:	LINDNER GRÜNZWEIG + HARTMANN		B 05
Article no. and color	see list of equal products color shade list	Page 201	B 06
Exception: If the room height does not permit the installation of the above described ceiling, the ceiling shall be plastered with plaster MG P II and painted 2 x DIN 18 550 T2			В 07
Paint material and color The wall connection joints shall be se	see color schedule ealed.	B 08 Page 201	B 08
B 07.2.2.4 Toilet stall – Partitions			
Partitions and privacy walls made of plastic sandwich elements, plastic lamination all around, suspended wall structure (without feet). All aluminum			
elements with powder coating or material 1.4301, surface grain 240. Wall hooks with a door stopper, Hewi article 520.70.1P and an additional wall hook without door stopper, Hewi article 520.60.1, color no. 97.			B 10
Product: Type:	KEMMLIT F-Primo 2.2		
Color: Hardware:	RAL 9010 (closely) VIELER		B 11
Article no.:	ER.US.FBG3.522.R with inspection pane (red/white) and emergency pin opening		B 12
Alternative makes are:	BESTA ISALITH		
Article no. and color	see list of equal products color shade list	B 08 Page 197-198	B 13
Each latrine shall be equipped as follows:			B 14
with sanitary equipment with heating	see see	B 10 B 11	
with ventilation	see	B 12	B 15

			SOURCE	
B 07.2.2.5	Shower cubicles in	latrines:		B 01
B 07.2.2.5.1 Walls: Plastered with plaster MG PII, The walls shall be sealed room-high in the area of shower incl. water-proof connections to shower tub to be installed acc. to moisture stress class II and room-high tiled with tiles		DIN 18 550 T2 Mkbl ZDB	B 02	
Format: Product:		10 x 10 cm V+B UNIT ONE		B 03
Alternative ma	kes are:	OSTARE AGROB BUCHTAL	В 08	B 04
Article no. and	color	see list of equal products color shade list	Page 197-198	D 05
first damp pro rails of mater	ofing level. Door pass ial 1.4301 (stainless	ed on the rough floor or rough slab with a sages shall be effectively sealed with angle steel) and damp proofing. See Fig. 07.6,	MILLI ZDD	B 05
screed can consist of two layers of ETAF considered to be more important than so the wall joint shall be damp proofing acc.		ment screed. Sound insulation below the ETAFOAM. An effective damp proofing is an sound insulation. The screed including	Mkbl ZDB	B 07
Floor finish: til	,			B 08
Format: Product:		10 x 10 V+B PRO ARCHITECTURA		B 09
Alternative ma	kes are:	AGROB BUCHTAL	B 08	
Article no. and	color	see list of equal products color shade list	Page 199-200	B 10
The outer row of the floor finish consists of flat cove base tiles. A permaelastic joint shall be provided between the cove base tile and above-grade wall tiles.				B 11
Flat cove base Format: Product:	e tile:	10 x 10.3 cm V+B PRO ARCHITECTURA		B 12
Alternative ma	kes are:	AGROB BUCHTAL	B 08	
Article no. and	color	see list of equal products color shade list	Page 199-200	B 13
				B 14
				B 15

		SOURCE	
B 07.2.2.5.3 CEILINGS:			B 01
The ceiling shall be executed same a	s described in latrines.		
B 07.2.2.5.4 Equipment Each shower cabin shall be equipped	1		B 02
with sanitary items with ventilation	see see	B 10 B 11	B 03
ADDITIONALLY with:			B 03
Bench made of wood boards of hard wood 3 x transparent enamelled with an acid resistant DD enamel. Dry layer thickness at least 80 mü. One bottom rack made of square pipes of material 1.4301, surface grinding grain 240. Height: 40 cm			B 04
Depth: Length:	35 cm acc. to existing space		B 05
Doors corridor/latrines	see	B 07.4.6	
Typical layouts for latrines see Fig. 0	7.13 – 07.15 next pages.		B 06
			B 07
			B 08
			B 09
			B 10
			B 11
			B 12
			B 13
			B 14
			B 15

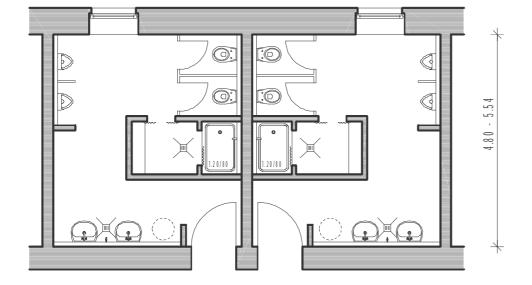
SOURCE

Fig. 07.13 Scheme layout – 4.40 - 4.79m



Layouts shall be arranged in accordance with the shown examples. Screens for wash basins and urinals shall be absolutely provided.

Fig. 07.14 Scheme layout 4.80 m - 5.54m



B 02

B 01

B 03

B 04

B 05

B 06

B 07

B 08

B 09

B 10

B 11

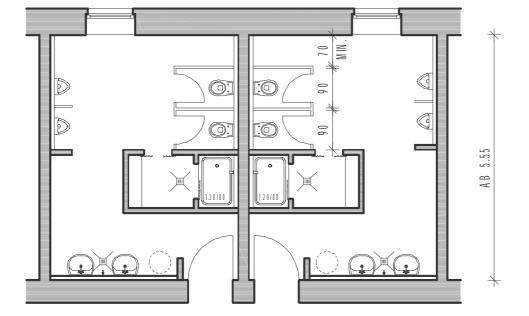
B 12

B 13

B 14

SOURCE

Fig. 07.15 Scheme layout as of 5.55 m



B 01

B 02

B 03

B 04

B 05

B 06

B 07

B 08

B 09

B 10

B 11

B 12

B 13

B 14

B 15

OSANLON - Nesiora	tion Frogram or 1100p Bill	cto Standard 111		
			SOURCE	
B 07.2.3	_AUNDRY		,	B 01
One washer and	one dryer shall be p	rovided per each 10 spaces.		
		pads, with appropriate distance, from the to prevent reciprocal heating.		B 02
B 07.2.3.1 No Plastered with pla	Walls: aster MG P II		DIN 18 550 T2	B 03
and tiled room-hi	igh with tiles		12	
Format: Product:		10 x 10 cm V + B UNIT ONE		B 04
Alternative make	s are:	OSTARA AGROB BUCHTAL		B 05
Article no. and co	olor	see list of equal products color shade list	Page 197-198	
				B 06
The laundry roor unfinished ceiling and a sealing.	j. Ioisture stress clas	damp proofing level on unfinished floor or	Mkbl ZDB	B 07
The floor shall be Skid resistance		R 10.	Mkbl ZH 1/571	
The floorings cor	nsist of tiles.			B 08
Size: Product:		15 x 15 cm V + B MAXI-FLOOR-COMMERCIAL		
Alternative make	s are:	OSTARA AGROB BUCHTAL		B 09
Article no. and co	olor:	see list of equal products color shade list	B 08 Page 199-200	B 10
	with tiles. All joint	orced concrete, surface with 1 % slope, as towards floor and walls shall be filled		B 11
Height of pad: Depth:		min. 10 cm as required by equipment dimension however, at least acc. to standard design		B 12
	Ceilings: aster MG PII, surface	e felted and 2 x painted with		B 13
paint material an		see	B 08	
•	EQUIPMENT			B 14
	ers shall be U.S. Go	vernment furnished, installed, connected		
,				B 15

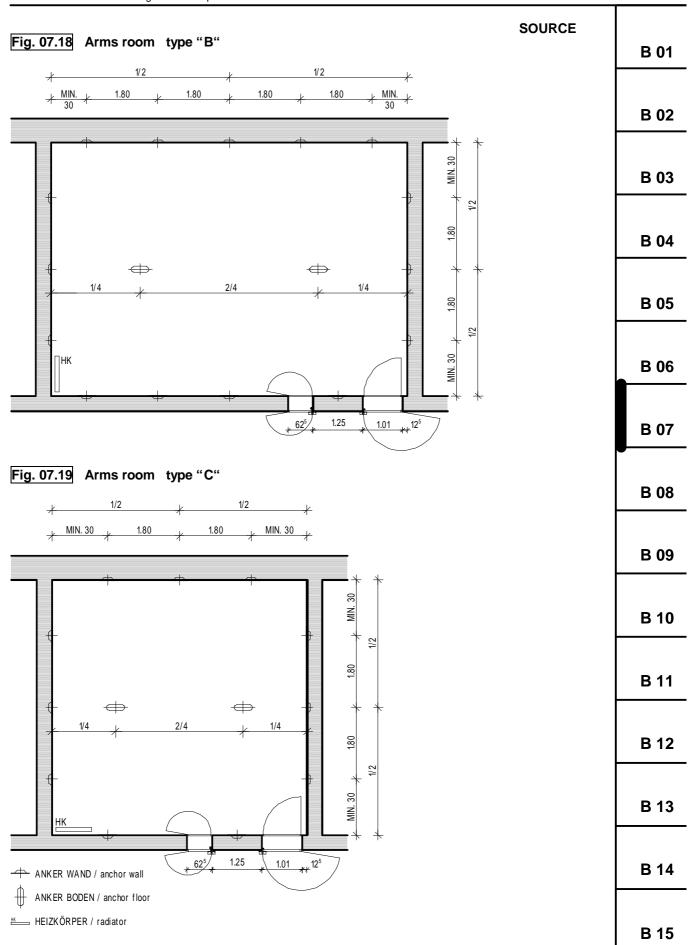
				SOURCE	
B 07.2.3.4.1 Dimensions:	Washers and Dryers	: (present dimensions)		SOUNCE	B 01
Width:		71 cm			
Depth		73 cm			
Height		1.18 m			D 00
Wall clearance		min. 20 cm			B 02
B 07.2.3.4.2	Laundry table:				D 00
	ble shall be provided for	or 5 each washers and d	ryers.		B 03
Dimensions: Width:		1.00 m			
Depth		1.50 m			
Height		0.75 m			B 04
Racks of tables	s shall be constructed a	of square pipes with synt	hetic leas		
Dimensions	S Shall be constructed	30/30/2.6 mm	inche lego		
Material		1.4301			B 05
	ole consists of multiple	x boards (workbench boa	ards)		
Thickness		50 mm			
Glueing	table made table to me	BFU 100	-14		
	table rack; table top e ith stair sealant.	dges are rounded at all s	sides,		B 06
Tables shall be	fastened on the wall,	not on the floor.			
B 07.2.3.4.3	Equipment				B 07
	oom shall be equipped				
with sanitary fa	cility	see		B 10	
with heating		see		B 11	B 08
with ventilation		see		B 12	
Doors see				B 07.4.6	
Windows		see		В	B 09
					B 10
					B 11
					B 12
					B 13
					B 14
					B 15

SOURCE B 01 Fig. 07.16 Laundry room B 02 \parallel 20 TR <u>TR</u> TR <u>TR</u> <u>TR</u> **B** 03 TROCKNER / dryer SCHLAUCH 34" hose **B** 04 1.00/1.50 B 05 ${\tt WASCHMASCHINE} \; / \; {\tt washing\text{-}machine}$ (WM) $(W \cdot M)$ (W·M) (W-M)(WM) 90 **B** 06 **B** 07 **B** 08 **B** 09 **B** 10 Abströmende Luft / Schacht outgoing air / shaft B 11 **B 12** 10 min. **B** 13 Abströmende Luft / Direkt **B** 14 outgoing air / direct B 15

	SOURCE	
B 07.2.4 ARMS ROOM (for small arms)	33332	B 01
Arms rooms shall be in conformance with the following DoD 5100-76 M Design Criteria. Existing building structures in conformance with the Manual For Safety of Sensitive Conventional Arms, Ammunition and Explosives, shall not be renovated, unless HQ USAREUR/7a ODSENGER has determined, that the	DOD 5100-76-M	B 02
existing structural condition of arms room (for instance walls, ceilings, roofs, floors and doors) do not offer equivalent or better protection. This must be coordinated with USAREUR upon commencement of design.		В 03
Protection of arms rooms shall meet at a minimum the criteria listed below: - Break-thru resistance - Projectile resistance		
 Bullet resistance Protection against unauthorized access (increased protection) 		B 04
Arms rooms can be constructed according to (Fig. 07.17 – 07.19). The accomplishment shall be determined with HQ USAREUR/7a upon commencement of design.		B 05
B 07.2.4.1 Walls: Walls consist of reinforced concrete B 25, min. 20 cm thick, reinforced with structural steel bars diameter 12 mm with e = max. 12 cm centrally staggered in each position, providing a net of approx. 12/12 cm		B 06
or of a 24 cm thick concrete block wall with reinforcing bars, diameter 12 mm, vertically filled with mortar or concrete in horizontal joins and through brick voids.		В 07
B 07.2.4.2 Ceilings and/or roofs: The distance between reinforcing bars should be selected to provide a net with no opening larger than 12/12 cm. Reinforcing bars should be 12 mm in diameter or larger.		B 08
Slabs and/or roofs of existing facilities should be provided with the same degree of safety as the walls or it should be comparable with the degree of safety of windows and/or doors.		В 09
B 07.2.4.3 Floors: Floors, if erected on soil, shall consist of concrete structures of not less than 20		B 10
cm thickness, reinforced with 6×6 inch structural steel mats or appropriate reinforcing bars. Where the floor slab serves as ceiling for a room or an area underneath, the ceiling standards apply, minimum thickness 25 cm.		D 44
B 07.2.4.4 Interior Equipment of Arms Rooms:		B 11
Inserted lugs in wall for safety chains. Lugs shall be able to resist a tensile force of 228 kg. Lugs shall be installed in distances acc. to standard plan from corners towards the middle of the wall or the wall section, 92 cm distance to the floor. Not less than one lug per wall or wall section. Lug spacing max. 1.80 m among each other.		B 12
Two recessed lugs for safety chains shall be installed approximately in the middle axle of free floor space. The lug should be able to resist a tensile force		B 13
of 230 kg. (Installation acc. to standard layouts).		B 14
		B 15

		SOURCE	
B 07.2.4.5	Windows and Other Openings:		B 01
Arms rooms s	hall be installed without windows.		B 02
	d other openings are existing, which cannot be closed, they shall e.g. with steel shutters, material in resistance class comparable walls.		
intervals and he welded on ver coal-mangane Bars or steel r	Window Grilles, Outside: 14 mm diameter and more, vertical bars spaced at max. 10 cm norizontal bars at max. 20 cm intervals. Horizontal bars shall be tical bars, obtaining openings of max. 0.02 m² or 1.7 mm thick se steel mesh with 5 cm diamond grill. mesh shall be firmly bedded in the substructure of the building or steel frame to be fastened on the wall rendering the fastening		B 03
elements inacc	cessible from outside the arms room.		B 05
supply air ope	Supply air from corridor: ms will be provided in building by the corridor wall with at least 2 nings in angled shape. On corridor side with a grid, mesh width losed, on room side fire protection plate valves, at lest fire ss (F 30).		B 06
B 07.2.4.8	Special requirements		B 07
Joint intrusion	alarm system (J-SIDDS, also IDS).		
	be connected at the alarm system or the monitoring system in the (MP) Station and in some cases at the Battalion Headquarter.		B 08
Doors Service count	ter see	B 07.4.8 B 07.4.8	B 09
			B 10
			B 11
			B 12
			B 13
			B 14
			B 15

SOURCE	
Fig. 07.17 Arms room type "A"	B 01
<u>, 1/2 , 1/2 , </u>	
$\frac{1}{2}$ $\frac{1}$	B 02
	B 03
30 MIN.	
88.	B 04
180	B 05
4 7 7	B 06
98.	
	B 07
1,4 4	
HK HK	B 08
ANKER WAND / anchor wall	B 09
ANKER BODEN / anchor floor	
	B 10
Installation of wall anchor = axis 0.92 m above finished floor. This information applies for all types.	
	B 11
	B 12
	B 13
	D 44
	B 14
	B 15



	-91			
B 07.2.6	MUD ROOM:		SOURCE	B 01
the outside or The room sha that the acces access from the	located directly near a ill be provided with wind as must be from outside the clean area directly in a stairwell, the entrance	uch a manner that it has a direct access to stairwell having an access to the outside. dows. The compulsory way shall be such, e (mud way). It must be possible to obtain not the building (clean way). If the access e door shall be located as near as possible		B 02
B 07.2.5.1	Walls:			B 03
	n plaster MG P II m height with tiles		DIN 18 550 T2	B 04
Format: Product:		10 x 10 cm V + B UNIT ONE		
Alternative ma	ikes are:	OSTARA AGROB BUCHTAL		B 05
Article no. and	l color	see list of equal products color shade list	B 08 Page 197-198	B 06
The joint bety permaelastica		oncrete slab and wall tiles shall be filled		D.07
admixture of		pe towards drain gutter. Surface upon – min. 15 kg/m² (= 1 cm wear course) – 10	Mkbl ZH 1/571	B 07
B 07.2.5.3 Plastered with and painted 2	Ceilings: plaster MG PII x		DIN 18 550 T2	В 09
Paint material	color:	see	B 08 Page 197-198	
B 07.2.5.4 Wash tub mad Quantity min. Quantity max.	Equipment: de of stainless steel	2 ea 4 ea	3	B 10
Wall mounted	brush n water (60°C)	see see	B 10.5.9 B 10	B 11
Cast stone sin Quantity min. Quantity max. Fittings for col warm water		2 ea 4 ea	B 10	B 12
Ventilation		see see	B 12	
	m contains clothes line			B 13
Material thickn	ness	4 mm stainless steel 1.4301		B 14
Matorial		plastic coated		
				B 15

OSANEON - Nestoration Program of Troop B	meto Ctaridara 111		
		SOURCE	
ACCESSORIES: Ring with snap hook, wall hooks made of material	stainless steel 1.4301		B 01
and dowels Product Article	HILTI HKD, M 8		B 02
Material Turnbuckle on one side made of material	stainless steel 1.4301 stainless steel 1.4301		B 03
In case of a tensioned length of over	er 3 m, the clothes line shall be additionally		
lug made of material	e of the room with a threaded rod and a ring stainless steel 1.4301		B 04
Doors Windows	see see	B 07.4 B 07.4.11	B 05
Fig. 07.20 Mud room type 1			B 06
SAUBERER WEG clean way			В 07
FLUR / corridor			В 08
			B 09
50 30 30 30			B 10
WÄSCHESEILE tensioned lines	KANAL channel		B 11
hose			B 12
SCHMUTZWEG mud way			B 13
			B 14
			B 15

SOURCE B 01 Fig. 07.21 Mud room type 2 **B** 02 SAUBERER WEG clean way B 03 FLUR / corridor **B** 04 30 30 30 30 50 FLUR B 05 corridor **B** 06 WÄSCHESEILE KANAL tensioned lines channel SCHLAUCH ¾" hose **B** 07 SCHMUTZWEG **B** 08 mud way **B** 09 Wäscheseile tensioned lines **B** 10 B 11 **B** 12 SCHNITT **B** 13 section **B** 14 B 15

OSANEON - Nes	toration Frogram or 1100p Bil	ilets - Standard 1+1	-	
			SOURCE	
B 07.2.6	OFFICE AND/OR ST	TORAGE ROOMS		B 01
All remaining rooms.	All remaining rooms in the basement shall be finished as offices and/or storage			
	top adas finished	floor of rooms shall be lowered by 1 cm		B 02
	op edge corridor floor.	floor of rooms shall be lowered by 1 cm		
B 07.2.6.1 Plastered with and painted 2	Walls: plaster MG PII, surfac x	e smoothened	DIN 18 550 T2	B 03
Paint material	/color:	see color schedule	B 08 Page 197-198	B 04
	Picture Rails: hall be installed on the allation as described in			B 05
See Fig. 07.2			B 07.1.1.2 Page 76	B 06
B 07.2.6.2 The existing r	Floor: einforced concrete floo	ors shall be removed and replaced with new		
floors. See		no onali po fornovoa ana ropiacea war now	В 07.2	B 07
Floors shall be	e finished with split clin	ker flags.		B 07
Product: Article: Format:		AGROB BUCHTAL Series Quantum 25 / 12.5 cm		B 08
Thickness:		8 mm		
Alternative ma	akes:	GAIL	B 08	B 09
Article no. and	d color	see list of equal products color shade list	Page 199-200	
The outer row of the floor finish consists of flat cove base tiles. A permaelastical joint shall be provided between the cove base tile and abovegrade wall tiles.				
Flat cove base	e tile:			B 11
Format: Product:		25 / 12.5 cm AGROB BUCHTAL		
Alternative ma	akes are:	GAIL	D 00	B 12
Article no. and	d color	see list of equal products	B 08 Page 199-200	
A base made at wall.	of same split liner flags	s shall be provided above the cove base tile		B 13
Height approx The joint bety		12.5 cm nd floor base shall be separated, this joint		B 14
				B 15
				_

		SOURCE	
B 07.2.6.3 Ceilings:			B 01
panels. Wall connection with dummy joint no	metal system, white coating, removable 5.56 – see pamphlet 16/OWAcoustic. cture, galvanized, hangers shall be Nonius .		B 02
Standard grid Panel thickness: Product:	62 ⁵ x 62 ⁵ cm 20 mm OW Acoustic		B 03
System: Construction material class:	S 15 A 2		B 04
Alternative makes are:	LINDNER WILHELMI	В 08	B 05
Article no. and color	see list of equal products color shade list	Page 201	
NOTE to installation height of susp	ended ceilings:		B 06
	nstalled as high as possible, in any case ove. Clear minimum height 2.14 m.		B 07
Suspended ceilings can be renounced in exceptions, if the clear heights become too low. This shall be determined with HQ USAREUR upon commencement of design. The ceilings shall be then plastered with plaster MG PII, surface smoothened. DIN 18 55			B 08
	suspended ceilings. Sprinkler heads shall Slopes or recesses shall be provided in the lows can be opened for ventilation.		B 09
Doors Windows	see see	B 07.4 B 07.4.11B	B 10
			B 11
			B 12
			B 13
			B 14
			B 15

		SOURCE	
B 07.2.7 CORRIDORS IN BA	SEMENT		B 01
B 07.2.7.1 Walls Plastered with plaster MG II The wall areas on top of tile shall be plastered up to ceiling flush with tiles, surface smoothened and tiled vertical up to top edge door jamb, top row			
horizontal tiled: Tile finish of split clinker flags, glazed	d, up to top edge door jamb.		B 03
Format: Thickness: Product: Article:	25 / 12.5 cm 8 mm AGROB BUCHTAL Series CHROMA		B 04
Alternative makes:	GAIL		
Article no. and color	see list of equal products color shade list	B 08 Page 197-198	B 05
	n entire length on both sides of corridors	B 07 Page 76 + 100	B 06
	t same as shown in Fig. 07.2 page 76 and ht shall correspond to width of top tile row. vided for each project.	Page 76 + 100	В 07
B 07.2.7.2 Floors: Existing concrete floors shall be removed. New floor compositions shall be executed as follows from bottom to top:			
PE-foil Reinforced concrete slab Damp proofing against rising moistur shall select the load case acc. to loca sealing acc. to load case "non-pressu	al conditions, however, at least	DIN 18 195	B 09
	·	Part 4	B 10
Cast stone covering installation in moof MG III, acc. to DIN 1053-1	ortar bed with recipe installation mortar	DIN 1053-1	
Format: Product: Hardness class:	30 / 30 cm DASAG I		B 11
Alternative makes are:	REOLIT GmbH, Betonwerkstein/ Naturstein BUSSE Marmor- und Betonwerke GmbH BAUSTOFFWERK Unterfahlheim		B 12
Article no. and color	see list of equal products color shade list	B 08 Page 199-200	B 13
Door thresholds of one piece without Product:	joint, adjusted in door niche DASAG		B 14
Hardness class:	I		B 15

		SOURCE	
Alternative makes are:	REOLIT GmbH, Betonwerkstein/ Naturstein BUSSE Marmor- und Betonwerke GmbH		B 01
	BAUSTOFFWERK Unterfahlheim		B 02
Article no. and color	see list of equal products color shade list	B 08 Page 199-200	
	talled flush with wall, glued in Buttering -to remaining difference from wall finishes		B 03
Height: Width: Thickness min. Product	24 cm 24.5 cm 10 mm, material calibrated Bianco Cristallo		B 04
Article no. and color	see list of equal products	B 08	B 05
Article no. and color	color shade list	Page 197-198	
to evenness. Contrary to VOB/C DIN	ance with DIN 18 022, Line 4 with reference I 18 333 finishes shall be installed with ence (acc. to DIN 18 333, para. 3.1.2)	DIN 18 022	B 06
between adjacent slabs is not accep		DIN 18 333 digit 3.1.2	В 07
B 07.2.7.3 Ceilings:			
The ceilings shall be directly plastere and painted 2 x. The installations shall the ceiling.	d with plaster MG PII nall be installed visible, orderly underneath		B 08
Doors in office/storage rooms Doors in front of electrical distribu Doors to stairwells	see itors see see	B 07.4.6 B 07.4.10 B 07.4.9	B 09
Doors in latrines	see	В 07.4.6	B 10
			B 11
			B 12
			B 13
			B 14
			B 15

OOAKEOK - KCSI	toration Frogram or Troop Bill	oto otaliadia i i i		
			SOURCE	
B 07.3	ATTIC			B 01
If BEDROOMS / bathrooms will be improved in attic, these shall be accomplished acc. to criteria same as described in digit B 07.1.1. B 07.1.1				B 02
B 07.3.1	GAME ROOM IN AT	TIC:		
The game roo	m shall be equipped wi	th windows to allow cross ventilation.		B 03
appropriate m - Table tennis - Billiard table additionally - Gambling ma	inimum distances to wa board achines, different sizes	following equipment in the game room, alls and or roof slopes shall be observed: or (2 ea)		B 04
- Table soccer	ſ			B 05
B 07.3.1.1 Plastered with and painted 2	Walls plaster MG P II, surfac x	ce smoothened	DIN 18 550 T2	B 06
paint material	and color	see color schedule	B 08 Page 197-198	
B 07.3.1.1.1 Picture rails sl	Picture Rails hall be installed on the	walls	1 ago 107 100	В 07
	allation same as describ		B 07.1.1.2 Page 76	B 08
B 07.3.1.2 Floor: The floor construction with floating cement screed, it shall be covered with a 4 mm thick rubber covering with an elastic subbase. Joints shall be pointed with a thermal cord.				B 09
Product:		FREUDENBERG		
	nthetic rubber:	norplan stone no. 149 4 mm thick courses		B 10
Article:		noraplan stone elastic, 20 dB		
Alternative ma	akes are:	SAARGUMMI		B 11
		DUNLOPLAN	B 08	
Article no. and	d color	see list of equal products color shade list	Page 199-200	B 12
B 07.3.1.3 Baseboards m	Baseboards: nade of solid wood	see Fig. 07.1	B 07.1.2.2 Page 76	B 13
Finished base Paint material	boards shall be painted and colors	l with mass color; see color schedule	В 08	
			Page 197-198	B 14
				B 15

- Transfer T			
		SOURCE	
			B 01
B 07.3.1.4 Ceilings			
Construction fire rating F 60 , plaster made of gypsum plasterboards and	ed or		
made of gypsum plasterboards and	painted 2 x.		
Material and color	see color schedule	B 08	B 02
		Page 201	
Furniture:			
This furniture will be U.S. Governm	ent furnished and installed.		B 03
Table tennis board:			B 03
Width	1.52 ⁵ m		
Length	2.73 m		
Height	0.76 m		B 04
Basic area to be planned	6.00 x 12.00 m		
(movement area to be observed!)			
Dilliand table.			
Billiard table: Width	1.25 m		B 05
Length	2.25 m		
Height	0.66 m		
Basic area to be planned	4.00 x 5.00 m		B 06
(movement area to be observed!)			
Doors:		B 07.4.4	
Windows:	see see	B 07.4.41	B 07
Williaows.	300	B 07.4.11	
			B 08
			B 09
			B 10
			B 11
			B 12
			B 13
			B 14
			B 15

•							
			SOURCE	D 04			
B 07.3.2	LATRINES - ATTIC	;		B 01			
The latrines shall be separate for women and men. They shall be provided with windows for a standard ventilation and lighting.							
		analogous to latrine facilities in basement. er, without shower cabins.	В 05.1.3	B 02			
B 07.3.2.1 Plastered with room-high tile	Walls: a plaster MG P II d with tiles		DIN 18 550 T2	B 03			
Format: Product:		10 x 10 V+B UNIT ONE		B 04			
Alternative ma	akes are:	OSTARA AGROB/BUCHTAL		B 05			
Article no. and	d color shade:	see list of equal products - color shade list	B 08 Page 197-198	B 06			
proofing level. material 1.430		rough floor or rough slab with a first damp be effectively sealed with angle rails of	Mkbl ZDB	B 07			
Each latrine s can consist considered to the wall joint s Damp proofing	shall receive cement of two layers of ET be more important the shall be sealed acc. to g shall be raised on the	AFOAM. An effective damp proofing is nan sound insulation. The screed including moisture stress class II e wall min 15 cm above the screed (second	Mkbl ZDB	B 08			
damp proofing The floor finish	g level). h consists of tiles.		·	B 09			
Format: Product:		10 x 10 V+B PRO ARCHITECTURA		B 10			
Alternative ma	akes are:	AGROB/BUCHTAL	В 08				
Article no. and	d color shade:	see list of equal products - color shade list	Page 199-200	B 11			
	naelastic joint shall b	of the floor finish consists of flat cove base e provided between the cove base tile and		B 12			
Format: Product:		10 x 10.3 cm V+B PRO ARCHITECTURA		B 13			
Alternative ma	akes are:	AGROB/BUCHTAL	D 00				
Article no. and	and color shade:	see list of equal products - color shade list	B 08 Page 199-200	B 14			
				B 15			

			SOURCE				
B 07.3.2.4	Ceilings:			B 01			
installed without Nonius hange	Space conditions permitting, a suspended aluminum ceiling structure shall be installed without insulation layer, incl. all structures below and above. Only Nonius hangers shall be used. Step angle sections shall be provided at transitions from wall to ceiling.						
	ht (minimum height) a ht shall not be less tha	approx. 2.20 m above completed floor level, n 2.15 m.		B 03			
Panel shape: Panel height: Panel width: Module: Type:		F 12 mm 84 mm 100 mm aluminum, perforated		B 04			
Perforation: Product:		B-perforation rate 22%, diameter 1.0 mm RICHTER		B 05			
System: Alternative ma	kes are:	16.1 LINDNER GRÜNZWEIG UND HARTMANN		B 06			
Article no. and	l color	see list of equal products color shade list	B 08 Page 201	В 07			
B 07.3.2.2	Latrine Partitions /	Privacy Walls:					
around. All a	luminum parts with po	(without feet) with plastic lamination all owder coating or made of material 1.4301 shall be supported with legs at corner.		B 08			
Product: Type: Color:		KEMMLIT F-Primo 2.2 RAL 9010 (closely)		B 09			
Hardware: Article no.:		VIELER ER.US.FBG3.522.R with inspection pane (red/white) and emergency pin opening		B 10			
Alternative ma	kes are:	BESTA ISALITH	D 00	B 11			
Article no. and	l color	see list of equal products color shade list	B 08 Page 197-198	B 12			
B 07.3.2.5 Each latrine sl	Equipment: nall be equipped as follong	lows:					
with sanitary with heating		see see	B 10 B 11	B 13			
Entrance doo		see	B 12 B 07.4.4	B 14			
Windows		see	В 07.4.11	B 15			

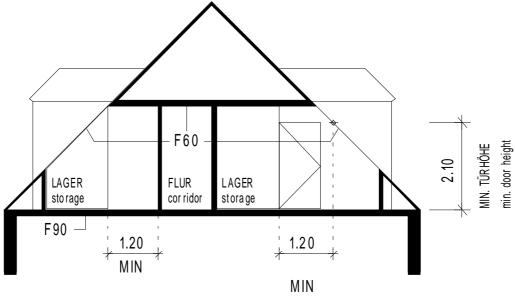
OSANEON - Nest	oration Program or 1100p Bill	ets - Standard 1+1				
			SOURCE			
B 07.3.3	STORAGE BIN ROO	MS ATTIC		B 01		
Luggage storage bin rooms in the attic shall be arranged as shown on drawings Fig. 07.22. Arrangement along corridor walls shall be given preference. AR 190-51						
The floor finish shall be placed prior to erection of storage bins. Base point structures under the columns shall be used for provision of an adequate pressure distribution (depressions are to be prevented). Posts shall be fastened though the base structure with screws and dowels. Future dismantling allows punching and glueing of drilling holes without having to remove the finish.						
B 07.3.3.1 Flush plastere	Walls: d surface with paint fini	sh.		B 04		
Material and c		see color schedule	B 08 Page 197-198	B 05		
B 07.3.3.2 Composite sci	Floor: reed					
Rubber finish Joints shall be	pointed with thermal c	2 mm thick courses ord.		B 06		
Product: Article:		FREUDENBERG noraplan stone dolomit 1162		B 07		
Alternative ma	kes are:	SAARGUMMI DUNLOPLAN	D 00			
Article no. and	l color	see list of equal products color shade list	B 08 Page 199-200	B 08		
B 07.3.3.2.1 Baseboards m	Baseboards: nade of solid wood (hor	izontal execution) see Fig. 07.1	B 07.1.2.2	B 09		
Finished base	boards shall be painted	with mass color;	Page 76			
Paint material	and colors	see color schedule	B 08 Page 197-198	B 10		
	walls of storage bin ro	(Soldier's Luggage): oms shall have ceiling height. n a door with following minimum	STPL A3 001 00G A3 002 00G	B 11		
Width Height		1.00 m 2.125 m asp for placing of padlock; hasp made of 30/60/3 mm, the spacing between cover		B 12		
plates shall be mm diameter.		plates shall have a perforated drilling of 13		B 13		
(telescopic pi	pes) 40/40/2.0 mm v	e bin room walls consist of square pipes with head and base panels, these area		B 14		
	oor and ceiling. ance of support distand	es 1.25 m.				
				B 15		

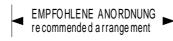
	SOURCE	
Door construction:		B 01
The door construction made of square steel pipes with angle crossbars and bracings.		B 02
Doors shall be equipped with at least three hinges; hinge pins shall be secured against lifting with cams.		
The entire stud wall construction incl. door facility will be planked vertical with trapezoidal plates.		B 03
Distance of frame to ceiling and floor 3 cm, for cross ventilation.		D 04
The entire construction shall be provided with painting.		B 04
All fastening agents such as rivets, screws, bolts etc. shall be installed in such a manner that they are inaccessible from outside and/or cannot be dismantled.		B 05
B 07.3.3.4 Ceilings Plastered with a plaster MG PII, or gypsum plasterboard covering Fire rating F 60 and painted 2 x	DIN 18 550 T2	B 06
Paint material and color see color schedule	B 08 Page 201	B 07
Arrangement suggestion of storage bin rooms Fig. 07.22 see next page.	· ·	
Accomplishment of entire storage bin rooms acc. to standard plan.	STPL NO. A3 001 00G A3 002 00G	B 08
B 07.3.4 Janitor's closet The janitor's plaster room shall be accomplished in improvement same as the janitor's closets on floors. Only one rack shall be installed. see B 07.1.4.	Page 85-86	B 09
B 07.3.5 Room for telephone The room for telephones shall be improved same as the game room. see B 07.3.1.	Page 124	B 10
		B 11
		B 12
		B 13
		B 14
		B 15

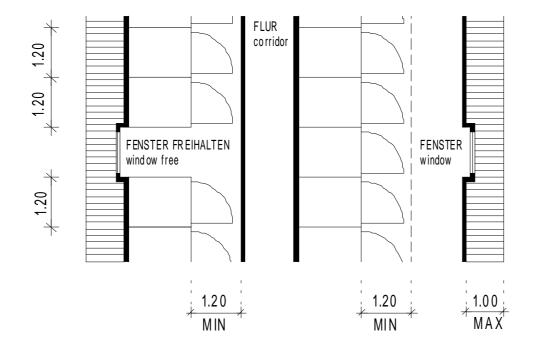
SOURCE

Preferred arrangement of bins along the interior building wall.

Fig. 07.22 Storage / attic







B 01

B 02

B 03

B 04

B 05

B 06

B 07

B 08

B 09

B 10

B 11

B 12

B 13

B 14

B 15

		SOURCE	
B 07.4 B 07.4.1	BUILDING ELEMENTS DOOR SYSTEMS		B 01
B 07.4.2 Doors and do depicted below	Door systems general por systems shall be performed acc. to criteria described and v.		B 02
	construction supervisory allowed door systems and door systems aves are installed acc. to a construction supervisory allowance.		B 03
hardware in Installation o manufacturer	s shall have a construction supervision permit. Locks and fire doors must be approved as per DIN for the fire door. If doors shall accurately be performed in accordance with its installation requirements and the manufacturer's instruction supervision approval. If this is not the case, the		B 04
	s loose its certification and the identification plate becomes		B 05
door system. allowance sh constructed	plate must be attached on each construction supervisory A special type plate analog to construction supervisory all be attached on each door system, whose door leaf is acc. to a construction supervisory allowance. tent and text see single description of door systems.		B 06
and smoke sed listed single of systems with	be installed: Il doors from corridors to stairwells on all floors, all doors of fire ction divisions on all floors as steel door systems acc. to following descriptions, all further door systems on floors as wood door steel jambs – except wet rooms – these shall be equipped with systems and an aluminum jamb.		B 07
Single descrip	tions of door systems	Page 136-165	
	or systems shall be provided with lockings listed in door list – truction type. (Fig. 07.23)	Page 134-135	B 09
	tronic Key Locks (doors with magnetic card – locking system) led with an approval certificate, approval for this combined system).		B 10
The magnet ca (Underwriters	ard locking system shall additionally bear the UL-approval stamp Laboratory)	U/L	B 11
	m card shall be programmed by a computer. Programming shall manufacturer and/or supplier, who also has to install the locks.		B 12
The above de	scribed services shall be procured as part of the project.		
Manufacturer a	and/or supplier for SAFLOK locking systems is:		B 13
SEG Baubesc Industriestrass 68766 Hocken	e 16		
Tel.: 06205/20 Fax: 06205/20			B 14
			B 15

	SOURCE	
All door jambs on corridor sides in the area of tiles shall be accomplished as shadow joint jambs and in the area of rooms as circumferential jambs made of sheet steel, sheet thickness at least 2 mm.		B 01
Aluminum jambs made of extruded profiles or jambs of material 1.4031 edged with at least 2 mm thickness shall be installed in wet areas as per manufacturer's instruction.		B 02
Hardware such as hinges, overhead closer, lock, kick plates, peep holes shall be performed in accordance with the description and list of equal products.		B 03
Door stops shall be installed at all doors. Preference shall be given to wall in installation in top area of doors. Floor installation or installation in the area of door handles is unacceptable. The special door buffers shown on special plans shall be installed adjusted to door type.	STPL T3 001 00G	B 04
Doors located in circulation areas shall be provided with signage.	10 001 000	B 05
Signage see	В 09	
	Page 191	B 06
Latrines in basement and attic shall be provided with information symbols (pictographs women/men).		B 00
Product: VIELER Article no. women ER.US.PI.670 men ER.US.PI.671		B 07
B 07.4.2.1 Equality of door systems: A list of equal products shall be enclosed to each door system description. The products listed in this list are investigated to equality, the listed products will be considered as equal by HQ USAREUR; these products can be installed.		B 08
See for example B 07.4.4	B 07 Page 139	B 09
B 07.4.2.2 Door leaf surfaces wood door systems: As described in section B 08, the accomplishment of color series can be selected by real estate per building, they shall be determined binding at start of work of Final Design. Surface color shades are listed in lists for determined color series e.g. "cold series gray series" or "warm series-beige series" which		B 10
can be selected by the designer.		B 11
A mixing of color series within a building is not allowed. However, it can be changed in a real estate from building to building.		
		B 12
		B 13
		B 14
		B 15

			SOURCE	
B 07.4.3	DOOR SCHEDULE -	LOCKING		B 01
2 071410	DOOK CONEDULE	2001.1110		
Dear systems	المصادرة والمانية المانية والمانية	he performed in accordance with leaking		
and construction	on types described belo	be performed in accordance with locking ow.		B 02
All lockings sh	all be obtained in project	et.		
Door list Fig. 0	7 23	see	B 07 Page 134-135	
2001 mot 1 ig. 0			1 490 101 100	B 03
				B 04
				B 05
				5 66
				B 06
				В 07
				B 08
				B 09
				B 10
				B 11
				B 12
				۵۱۷
				B 13
				B 14
				B 15

Fig. 07.23

	TÜRVERZEICHNI	S-SC	HL	ESS	SUN	G /	DOC	OR S	SCH	EDL	JLE	
		BESC FITTI	HLAG NG		NDER NDER	BAU. CON	ART ISTRU	CTION				
GESCHOSS / STORY	ROOM MOOM	SAFLOK	FREI-BESETZT FREE - OCCUPATED	PROFILZYLINDER PROFILE CYLINDER	BLIND ZYLINDER FLUSH-ENCASED CYLINDER	HOLZ WOOD	T30 HOLZ T30 WOOD	STAHL STEEL	T30 STAHL T30 STEEL	T90 STAHL T90 STEEL	OHNE BRANDSCHUTZANFORDERUNG NO FIRERATING	BEMERKUNGEN REMARKS
	FECHNIK / AUSSENZUGANG FECHNICAL / EXTERIOR ACCESS	?						?				*5)
1	FECHNIK / FLUR FECHNICAL TO CORRIDOR	?							?			*5)
1	TÜREN IN TECHNIK DOORS IN TECHNICAL				?			?				
1	FÜREN EL – TECHNIK DOORS EL – TECHNICAL FOILETTEN DAMEN / HERREN EINGANG			?	?			?	?			
-	LATRINES WOMEN / MEN ENTRANCE FOILETTEN KABINEN ATRINE CARINES		?	•				•			?	*2)
ິ. ⊢	LATRINE CABINES WASCHKÜCHE LAUNDRY	?	•					?			•	-
BASEMENT	NAFFENKAMMER			?				?				SONDERTÜR
BAS	ARMS ROOM SCHMUTZRAUM MUD ROOM	?						?				*5)
I E	BÜRO UND / ODER LAGERRÄUME / EINGÄNGE DFFICE AND / OR STORAGE / ENTRANCES	?						?				
Е	BÜRO UND / ODER LAGERRÄUME / ZWISCHENTÜR DFFICE AND / OR STORAGE / MIDDLE DOOR			?				?				
F	PUTZRAUM JANITOR CLOSET	?						?				
Е	ELEKTRO / VERTEILER IM FLUR ELECTRICAL / DISTRIBUTION PANEL IN CORRIDOR								?			*3)
F	FLURTÜREN CORRIDOR DOORS								?			*3)
F	FLURTÜREN INS TREPPENHAUS CORRIDOR DOORS INTO STAIRWELL				?				?			*4)
	EINGANGSTÜR APPARTEMENT APARTMENT – DOORS	?				?						
	SCHLAFRAUM TÜREN (NUR TYP 3) BEDROOM DOORS (ONLY TYP 3)	?				?						
E	BADEZIMMER SCHLAFRÄUME BATHROOMS		?								?	*1) VOLLKUNSTSTOFF *1) ALL-PLASTIC *6)
	SCHRANKRAUM CLOSET			?		?						
ORS F	PUTZRAUM JANITOR CLOSET	?				?						
	KÜCHEN KITCHEN	?				?						
Z Z E	ELEKTRO / VERTEILER IM FLUR ELECTRICAL / DISTRIBUTION PANEL IN CORRIDOR						?					*3)
5 ≥ F	FLURTÜREN CORRIDOR DOORS								?			*3)
Ċ	FLURTÜREN INS TREPPENHAUS CORRIDOR DOORS INTO STAIRWELL				?			•	?			*4)
5	FREPPENHAUSTÜREN INS FREIE STAIRWELL DOORS INTO OUTDOOR	?						?				*5)
Е	FLUCHTTÜREN AUSSENTREPPEN ESCAPE DOORS OUTSIDE STAIRWELL					_		?				*3)
	HAUPTEINGÄNGE MAIN ENTRANCES	?	L			?						*5)

bdg10_2000

B 01

B 02

B 03

B 04

B 05

B 06

B 07

B 08

B 09

B 10

B 11

B 12

B 13

B 14

B 15

SOURCE

	TÜRVERZEICHNI							OR S	CH	EDL	JLE	
		BESC	HLAG ING		NDER NDER	BAU/ CON	ART STRU(CTION				
GESCHOSS / STORY	ROOM	SAFLOK	FREI-BESETZT FREE - OCCUPATED	PROFILZYLINDER PROFILE CYLINDER	BLIND ZYLINDER FLUSH-ENCASED CYLINDER	доом <i>2</i> 10н	T30 HOLZ T30 WOOD	STAHL STEEL	T30 STAHL T30 STEEL	T90 STAHL T90 STEEL	OHNE ANFORDERUNG WITHOUT DEMANDS	BEMERKUNGEN REMARKS
	APPARTEMENT – TÜREN APARTMENT – DOORS	?				?						
	SCHLAFRAUM TÜREN (NUR TYP 3) BEDROOM DOORS (ONLY TYP 3)	?				?						
	BADEZIMMER SCHLAFRÄUME BATHROOMS		?								?	*1) VOLLKUNSTSTOFF *1) ALL-PLASTIC *6)
	SCHRANKRAUM CLOSET			?		?•						
တ္တ	SPIELRAUM GAMEROOM	?				?						
S S	TOILETTEN DAMEN / HERREN EINGANG LATRINES WOMEN / MEN ENTRANCE			?		?						
SESCH ATTIC	TOILETTEN – KABINEN LATRINE CABINES		?								?	*2)
DACHGESCHOSS - ATTIC	ZUGANG ABSTELLRÄUME (GEPÄCK SOLDATEN) ACCESS STORAGE (LUGGAGE SOLDIERS)	?				?						
DA	RAUM FÜR TELEFONE TELEFON ROOM	?				?						
	ELEKTRO / VERTEILER IM FLUR ELECTRICAL / DISTRIBUTION PANEL IN CORRIDOR						?					*3)
	FLURTÜREN CORRIDOR DOORS								?			*3)
	FLURTÜREN INS TREPPENHAUS CORRIDOR DOORS INTO STAIRWELL				?				?			*4)
	FLUCHTTÜREN AUSSENTREPPEN ESCAPE DOORS OUTSIDE STAIRWELL	?										*3)
SPITZBODEN - UPPER ATTIC	SPITZBODEN UPPER ATTIC				?					?		*4) BRANDABSCHNITT *4) FIRE COMPARTMENT
SPITZBODEN - UPPER ATTI												

*1)
Full synthetic, climate class II, stress group S

*2)
Synthetic elements, climate class II, stress group S
Turn knob shall be installed on bedroom side

*3)
Short-long plate, on both sides without profile cylinder perforation, panic, with reclosing function "B", e.g. BKS 2320 Panic

Short-long plate, on both sides with profile cylinder perforation, panic, with reclosing function "B", e.g. BKS 2320 Panic

B 01 B 02 B 03 **B** 04 B 05 **B** 06 B 07 **B** 08 **B** 09 **B** 10 B 11 **B 12 B** 13 **B 14** B 15

OUANLON - NESIO	ation Frogram of Troop Billets - Standard	111		
			SOURCE	
B 07.4.4	Entrance door apartment			B 01
	s as of 1 st floor up to attic, from c , game room, latrines/attic and s follows:			B 02
Note: Only doors to a shall be observe	partments will be provided with a	a door peephole. The lockings		В 03
Rated dimensi Width Height	on 1.00 m 2.125 m		DIN 18 100	B 04
Clear passage Width Height	dimension 0.936 m 2.093 m		DIN 18 111	B 05
allowed to acco	t with a shadow joint jamb, sheen mplish a circumferential jamb on construction parts listed in following the marked in the rebate of but	room side. ng list of equal products.		B 06
construction su screws.	pervisory test sign with embossed	d metal sign to be fastened with		B 07
	T-30 FIRE RATED ACKS APARTMENT DOOR LEA REUR STANDARD 2000, Type *	.F		B 08
Fig. 07.24 Ap	artment door with viewer			В 09
*	ANSICHT ZIMMERSEITE	ANSICHT FLURSEITE		B 10
*	SPION O viewer	SPION o viewer		B 11
2.13 ⁵				B 12
*				B 13
30	STOSSBLECH kick plate	STOSSBLECH kick plate		B 14
	1.01	± 1.01		B 15

Door jamb: Shadow joint jamb / circumferentia rabbeted door	I jamb, sheet steel, thickness 2 mm, butt	SOURCE DIN 18 111	B 01
Paint material / color	see	Page 202-203	B 02
Door leaf: Thickness total approx. Fire rating Edge design Sound insulation value	47 mm T-30 butt RwP37 dB		B 03
Sound insulation value Sound insulation value Surface Material thickness	Rw32 dB on both sides laminated material panels 0.8-0.9 mm thick		B 04
Product Surface	GETALIT A 420-T vat texture		B 05
Hinges: Hinges Product Type	3 ea WENÜ STUBK 160.4.16		В 06
Surface Locking system:	Nirosta		В 07
Electronic magnet card opening syst mechanism Product Type Article	SAFLOK Classic V 168 1000		B 08
Interior and exterior side with handle Surface	US 26 D		B 09
Lock: Extra heavy-duty, hardened spring b Pin size: Article:	olt and dead bolt, with dead bolt arrester 70 mm 168 1100		B 10
Kick plates Stainless steel, sheet thickness Height across full door width	on both sides 1 mm 300 mm		B 11
Fastening Surface Viewer (only apartment entrance)	glueing and visible arranged screwing sanded, grain 240 wide angle, installed in door leaf center		B 12
Installation height:	1.60 m rs attic same as above, however, without		B 13
Saflok Handle set			
Product Article no.	VIELER ER.US.DG.522.K1 profile cylinder perforation		B 14
			B 15

The state of the s			
		SOURCE	
Manufacturer of doors with above listed requirements:			B 01
SCHÖRGHUBER Spezialtüren GmbH & Co., Betriebs k Neuhaus 3 84539 Ampfing	KG		B 02
Type/no. 13 N			D 00
Alternative makes are:	Svedex, Wirus		B 03
See following list of equal products		Page 139	B 04
			B 05
			B 06
			В 07
			B 08
			B 09
			B 10
			B 11
			B 12
			B 13
			B 14
			B 15

B 07.4.4 ENTRANCE	DOOR / apartn	nent		SOURCE	B 0
OOOR LEAF					Б0
Manufacturer	SVEDEX	WIRUS	SCHÖRGHUBER		
Type / No.	Typ 5	T 30-1	13 N		
					B 0
Fire protection DIN 4102/T5	T-30	T-30	T-30		
Door thickness total mm	47	45	47		
Edge formation	butt	butt	butt		1
Area weight kg/m²	35	34	31		B 0
Stress group RAL	S	S	S		
Climate class RAL	II	II	II		
Air sound insulation DIN 4109					
Sound insulation size Rw dB	32	32	32		B 0
Sound insulation size Rw,P dB	37	37	37		
Additional functions:					
Floor sealing	Χ	X	X		
Smoke protection	RS	RS	RS		B 0
Saflok	Х	Х	X		
Special sign soffit	Х	Х	Х		
DOOR SURFACE / LAMIN	ATED MATERIA	AL PANELS (cold s	eries)		B 00
Manufacturer	GETALIT	DUROPAL	PERSTORP	RESOPAL	
of door collection	0217(211	DOMO: 712	. 2.10.011	112001712	
or door concention			PP 2010	0160-60	
Color shade	A 420 T	U 1188 KT	(Malibu) NCS S1000 N	(Silver Grey) NCS S2000 N	B 0
Surface texture	vat paper	KT	KN (Konkret)	NP	
Thickness laminated material	1,2	1.2	1,2	1,2	
panels mm] '		•	<u> </u>	B 08
DOOR SURFACE / LAMIN	ATED MATERIA	AL PANELS (warm	series)		
Manufacturer	GETALIT	DUROPAL	PERSTORP	RESOPAL	
of door collection					В 0
			PP 1040	0112-60	
Color shade	A 32 T	U 1370 KT	Alpino	Ivory	
			NCS S 0502 Y	NCS S 0502 Y	
Surface texture	vat paper	KT	KN (Konkret)	NP	B 10
Thickness laminated material	1,2	1,2	1,2	1,2	
panels mm				<u> </u>	
HARDWARE / HINGES					1
	1	i	Ī	i	B 1
Manufacturer	WENÜ	SIMONS	VIELER		
Hinges / article no.	STUKB 160.4.16	VN 7729 3d	ER.TB		
	X		160.3361.ST		
Hinge installation element		VN 7608.160	X		B 1
max. door weight kg/m²	120	120	120		
Support bolts	X	X	X	 	
Adjustment possibility	3D	3D	3D	1	
TOP DOOR CLOSER					B 1
Manufacturer	GEZE	DORMA			
Article no.	TS 5500 S,X	TS 93 NK			
		Stainless steel			В 1
Surface	nirosta	design			"
(- to be accomplished and/or insta	allad	. .	•		
(= to be accomplished and/or instant	aneu				
					B 1

USAREUR - Resto	ration Program of Troop B	illets - Standard 1+1		
			SOURCE	
B 07.4.4.1	Entrance bedroom	(in apartment)		B 01
The standard layout Fig 06.3 requires an entrance door to bedroom in apartment. This door system shall be constructed same as apartment door system, however, with the construction elements described in the following.			B 02	
Rated dimensi Width Height	0,87	75 m 25 m	DIN 18 100	B 03
Clear passage Width Height	0,81	I1 m 93 m	DIN 18 111	B 04
Fig. 07.25 Be	edroom door			
	AN SICHT ZIMMERSEITE (TYP 3)	ANSICHT VORRAUMSEITE (TYP 3)		B 05
*				B 06
5 ¥	<u> </u>			В 07
2.13°				B 08
30	STOSSBLECH kick plate	STOSSBLECH kick plate		B 09
* * *				
-	* 88 ⁵ *	* 88 ⁵ *		B 10
Door jamb:	amb / circumferentic	al iamh, chaot ctaol, thickness 2 mm, butt	DIN 18 111	B 11
Shadow joint jamb / circumferential jamb, sheet steel, thickness 2 mm, butt rabbeted door				
Paint material /	color	see	Page 202-203	B 12
Door leaf: Thickness total Edge design Sound insulatio	on value	47 mm butt RwP 34 dB		B 13
Sound insulation Surface Material thickne		Rw 29 dB on both sides laminated material panels 0.8-0.9 mm thick		B 14
Product		GETALIT A 420-T		
Surface		vat texture		B 15
-				

Hinges: Hinges 3 ea Product WENÜ Type STUBK 160.4.16 Surface Nirosta Locking system: Electronic magnet card opening system, interior side without locking mechanism. Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Hinges 3 ea Product WENÜ Type STUBK 160.4.16 Surface Nirosta Locking system: Electronic magnet card opening system, interior side without locking mechanism. Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Hinges 3 ea Product WENÜ Type STUBK 160.4.16 Surface Nirosta Locking system: Electronic magnet card opening system, interior side without locking mechanism. Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Type STUBK 160.4.16 Surface Nirosta Locking system: Electronic magnet card opening system, interior side without locking mechanism. Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Surface Nirosta Locking system: Electronic magnet card opening system, interior side without locking mechanism. Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Locking system: Electronic magnet card opening system, interior side without locking mechanism. Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Electronic magnet card opening system, interior side without locking mechanism. Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
mechanism. Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Product SAFLOK Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Type Classic V Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Article 168 1000 Interior and exterior side with handle Surface US 26 D Lock:
Surface US 26 D Lock:
Lock:
Livero populir guest bordopod opripa bolt and dood bolt with dood bolt arrestor
Extra heavy-duty, hardened spring bolt and dead bolt, with dead bolt arrester Pin size: 70 mm
Article: 168 1100
Kick plates on both sides B
Stainless steel, sheet thickness 1 mm
Height 300 mm
across full door width
Fastening glueing and visible arranged screwing
Surface sanded, grain 240
Door stopper
Special door stopper of material 1.4301 see
T3 005 00G
Manufacturer of doors with above listed requirements:
SCHÖRGHUBER B (
Spezialtüren GmbH & Co., Betriebs KG
Neuhaus 3
84539 Ampfing B
Type/no. 3 N / VT
Alternative makes are: SVEDEX
WIRUS
WESTAG
B
B
B ·
B

3 07.4.4.1 ENTRANCE	DOOR / bedroo	m (in anartmer	nt)	SOURCE	
Layout Fig. ((aparano.	,		B 01
OOR LEAF					
Manufacturer	SVEDEX	WIRUS	SCHÖRGHUBER	WESTAG	B 02
Type / No.	Typ P1	Otima 37-S	3 N/ VT	Typ WAT	
	Perfect				
Door thickness total mm	42	44	47	42	
Edge formation	butt	butt	butt	butt	B 03
Area weight kg/m²	27	28	31	24	
Stress group RAL	S	S	S	S	
Climate class RAL	II	II	II	II	
Air sound insulation DIN 4109					B 04
Sound insulation size Rw dB	27	28	29	27	
Sound insulation size Rw,P dB	32	33	34	32	
Additional functions:					
none					B 05
smoke-proof					
Saflok	Х	Х	Х	X	
DOOR SURFACE / LAMIN	•	ı	-	1	B 06
Manufacturer	GETALIT	DUROPAL	PERSTORP	RESOPAL	
of door collection					
Color shade	A 420 T	U 1188 KT	PP 2010 (Malibu) NCS S1000 N	0160-60 (Silver Grey) NCS S2000 N	B 07
Surface texture	vat paper	KT	KN (Konkret)	NP	
Thickness laminated material				0.0	
panels mm	0,8	0,8	0,8	0,8	B 08
DOOR SURFACE / LAMIN	ATED MATERIA	L PANELS (war	rm series)		
Manufacturer	GETALIT	DUROPAL	PERSTORP	RESOPAL	B 09
of door collection					509
Color shade	A 32 T	U 1370 KT	PP 1040 Alpino NCS S 0502 Y	0112-60 Ivory NCS S 0502 Y	
Surface texture	vat paper	KT	KN (Konkret)	NP	B 10
Thickness laminated material			` ,		5 10
panels mm	0,8	0,8	0,8	0,8	
HARDWARE / HINGES					B 11
Manufacturer	WENÜ	SIMONS	VIELER		
Hinges / article no.	STUKB 160.4.16	VN 7729 3d	ER.TB 160.3361.ST		
Hinge installation element		VN 7608.160			B 12
max. door weight kg/m²	120	120	120	 	
Support bolts	X	X	X		
Adjustment possibility	3D	3D	3D	 	
SPECIAL CONSTRUCTION	1	-			B 13
Door stopper	Туре	Х	X	X	
Special door stopper	see standard plan no. T3 001 00G				B 14
K = to be accomplished and/or insta	alled				B 15

SOURCE	
B 07.4.4.2 Closet room door	B 01
Rated dimension: DIN 18 100 Width 0,750 m Height 2,125 m	B 02
Clear passage dimension Width 0,686 m Height 2,093 m	В 03
Fig. 07.26 Closet room door	B 04
ANSICHT SCHRANKRAUMSEITE ANSICHT ZIMMERSEITE	B 05
	B 06
	В 07
STOSSBLECH kick plate STOSSBLECH kick plate	B 08
76	В 09
Door jamb: Circumferential jamb, aluminum, thickness 2 mm, butt closing door with exterior insulation to wall.	B 10
Product KÜFFNER Type UST " hardline" surface powder coated	B 11
Color shade see color list B 08	B 12
Door leaf: Thickness total approx. 47 mm Edge design butt Sound insulation value RwP 33 dB Sound insulation value Rw 28 dB	B 13
Surface on both sides laminated material panels Material thickness 0.8-0.9 mm thick Product GETALIT	B 14
A 420-T Surface vat texture	B 15

- Treatment regram or record			_
		SOURCE	
			B 01
Hinges:	0		БОІ
Hinges	2 ea WENÜ		
Product	STUBK 160.4.16		
Type Surface	Nirosta		B 02
Surface	Milosta		
Lock:			
Mortise lock	profile cylinder perforation		
Lock class	4		B 03
Product	BKS		
Article	2820		
Bathroom:	special		
Cuff made of:	material 1.4301		B 04
Pin size:	65 mm		
Handle set:	LIEVA/I		.
Product:	HEWI		B 05
Article no.:	zgR 1111.23		
Color shade:	No. 95		
Kick plates	on both sides		D 00
Stainless steel, sheet thickness	1 mm		B 06
Height	300 mm		
across full door width	300 11111		
Fastening	glueing and visible arranged screwing		
Surface sanded	grain 240		B 07
Surface Sanded	grain 240		
Door stopper			
The door stopper shall be installed on top side of door. B 10.7.8			
	see	Page 241	B 08
		-	
Manufacturer of doors with above lis	ted requirements:		
SCHÖRGHUBER			B 09
	VC		
Spezialtüren GmbH & Co., Betriebs	NG		
Neuhaus 3			
84539 Ampfing			B 10
Type/no.	3N VT		
1 ype/110.	314 V I		
Alternative makes are:	SVEDEX		
Alternative marked are.	WIRUS		B 11
	······································		
			B 12
			D 40
			B 13
			D 44
			B 14
			B 15
			D 13

B 07.4.4.2 CLOSET RC	OOM DOOR			SOURCE	
DOOR LEAF					B 01
Manufacturer	SVEDEX	WIRUS	SCHÖRGHUBER		
Type / no.	Typ P 1	OPTIMA 37 S	3 N / VT		B 02
	PERFECT				
Door thickness total mm	42	39 – 42	47		
Edge formation	butt	butt	butt		
Area weight kg/m²	27	26	31		B 03
Stress group RAL	S	M	S		-
Climate class RAL	II	1	II		
Air sound insulation DIN 4109					B 04
Sound insulation size Rw dB	27	28	28		
Sound insulation size Rw,P dB	32	33	34		
·					
Additional functions:					B 05
Door – supply air	X*	X*	X*		<u> </u>
DOOR SURFACE / LAMIN					B 06
Manufacturer	GETALIT	DUROPAL	PERSTORP	RESOPAL	
of door collection			PP 2010	0160-60	
Color shade	A 420 T	U 1188 KT	(Malibu) NCS S1000 N	(Silver Grey) NCS S2000 N	B 07
Surface texture	vat paper	KT	KN (Konkret)	NP	
Thickness laminated material panels mm	0,8	0,8	0,8	0,8	
DOOR SURFACE / LAMIN	ATED MATERIA GETALIT	AL PANELS (war	m series)	RESOPAL	B 08
Color shade	A 32 T	U 1370 KT	PP 1040 Alpino	0112-60 Ivory	В 09
Surface texture	vot nonor	KT	NCS S 0502Y	NCS S 0502 Y	
Thickness laminated material	vat paper		KN (Konkret)	vat paper	
panels mm	0,8	0,8	0,8	0,8	B 10
HARDWARE / HINGES					
Manufacturer	WENÜ	SIMONS	VIELER		B 11
Hinges / article no.	STUKB 160.4.16	VN 7729 3d	ER.TB 160.3361.ST		<u> </u>
Hinge installation element		VN 7608.160			
max. door weight kg/m²	120	120	120		
Support bolts	X	Х	X		B 12
Adjustment possibility	3D	3D	3D		
x = to be accomplished and/or install= shortening of door leaf	alled				B 13
					B 14
					B 15

OUTINE OTT TROOK	Jianori Togram or Ti	100p Billets - Staridard		
			SOURCE	
B 07.4.4.3	Doors bathroo	oms in bedrooms		B 01
Doors bathro	oms in bedroon	ns:		
Rated dimens Width Height	ion:	0,750 m 2,125 m	DIN 18 100	B 02
Clear passage Width Height	e dimension	0,686 m 2,093 m	DIN 18 111	B 03
		2,000		B 04
Fig. 07.27				B 05
ANS	ICHT BADSEITE		ANSICHT ZIMMERSEITE	B 06
				B 07
2.13				B 08
				B 09
* * *	STOSSBLECH kick plate	l i	STOSSBLECH kick plate	B 10
*	76 _*		* 76 ★	B 11
Door jamb: Circumferentia insulation.	l jamb, aluminu	ım, thickness 2 r	mm, butt closing door with exterior	B 12
Product Type surface		KÜFFNER UST " hardline" powder coated		B 13
Color shade		see color list	B 08	B 14
				B 15

-			
		SOURCE	
Door leaf:			B 01
Product	WESTAG Nassraumtür		
Thickness total approx.	40 mm		
Polystyrene inserts	FCKW free / construction material class B1		B 02
Glueing	D 4 acc. to	EN 204	
Surface	on both sides laminated material panels		
Material thickness	0.8-0.9 mm thick		B 03
Product	GETALIT A 420-T		
Surface	vat texture		
Hinges:			B 04
Hinges	2 ea "		
Product	WENÜ		
Type Surface	STUBK 160.4.16 Nirosta		D 05
Surface	Niiosta		B 05
Lock:			
Bolt trap latrine lock	KL		-
Lock class Product	4 BKS		B 06
Article	2820 BAD		
Bathroom:	special		
Cuff made of:	material 1.4301		B 07
Pin size:	65 mm		
Handle set:			
Product:	HEWI		B 08
Article no.: in special composition with	fbg R 1111.23		
short plate			
Bathroom side	blind		B 09
Room side	with bolt-olive		
Color shade no. Installation: the turn knob shall be	95 arranged on bedroom side		
Kick plates	on both sides		B 10
Stainless steel, sheet thickness	1 mm		
Height	300 mm		
across full door width			B 11
Fastening Surface sanded	glueing and visible arranged screwing		ВП
Surface sanded	grain 240		
Door stopper			D 40
The door stopper shall be installed of	on top side of door.	STPL T3 005 00G	B 12
		13 003 000	
Manufacturer of such doors is:			B 13
WESTAG & GETALIT AG			
Alternative makes are:	SVEDEX		
	WIRUS		B 14
	Schörghuber		
			B 15

B 07.4.4.3 DOORS – b	athrooms in be	drooms		SOURCE	
DOOR LEAF					B 01
Manufacturer	SVEDEX	WIRUS	SCHÖRGHUBER	WESTAG	
Type / no.	Typ NR 2	Тур Н	3 N / NT	NASSRAUM	B 02
Fire protection DIN 4102/T5	B1	B1	B1	B1	
Door thickness total mm	42	40	47	40	
Edge formation	butt	butt	butt	butt	
Area weight kg/m²	12	11	18	11	B 03
Stress group RAL	S	S	S	S	
Climate class RAL	II	II	II	II	
Air sound insulation DIN 4109					В 04
Sound insulation size Rw dB					
Sound insulation size Rw,P dB					
Additional functions:					B 05
none					
Remarks:					1
Spot insensitiveness	EN 438	EN 438	EN 438	EN 438	
DOOR SURFACE / LAMIN	IATED MATERIA	AL PANELS (col	d series)		B 06
Manufacturer	GETALIT	DUROPAL	PERSTORP	RESOPAL	
of door collection					B 07
Color shade	A 420 T	U 1188 KT	PP 2010 (Malibu) NCS S1000 N	0160-60 (Silver Grey) NCS S2000 N	B 07
Surface texture	vat paper	KT	KN (Konkret)	NP	
Thickness laminated material panels mm	+ · · ·	2,00	2,00	2,00	B 08
DOOR SURFACE / LAMIN Manufacturer of door collection	GETALIT	AL PANELS (was	rm series) PERSTORP	RESOPAL	В 09
of door collection			PP 1040	0112-60	
Color shade	A 32 T	U 1370 KT	Alpino NCS S 0502 Y	Ivory NCS S 0502 Y	B 10
Surface texture	vat paper	KT	KN (Konkret)	NP	
Thickness laminated material panels mm	2,00	2,00	2,00	2,00	
HARDWARE / HINGES					B 11
Manufacturer	WENÜ	SIMONS	VIELER		
Hinges / article no.	STUKB 160.4.16	VN 7729 3d	ER.TB		B 12
Hinge installation element		VN 7608.160	160.3361.ST		
max. door weight kg/m²	120	120	120		
Support bolts	X	X	X		
Adjustment possibility	3D	3D	3D		B 13
K = to be accomplished and/or inst = shortening of door leaf	alled				D
					B 14
					B 15

OSANLON - Nestoration Frogram of Troop Billets - Standard 1+1		
	SOURCE	
B 07.4.5 Doors in front of electrical distributor cabinets / corridors 1 st floor - attic		B 01
1-wing / 2-wing, fire resistance class T30		
B 07.4.5.1 Doors in front of distributor cabinets / 1-wing, T-30:		B 02
Rated dimension:	DIN 18 100	
Width 0,875 m – 1,000 m Height 2,125 m		B 03
Fig. 07.28 Doors in front of distributor cabinets / 1-wing		B 04
†		B 05
		B 03
		B 06
3.3°		
		B 07
		B 08
STO SSBLECH kick plate		
* * <u> </u>		B 09
<u> 88⁵ -1.01</u>		
Door jamb:	DIN 18 111	
Shadow joint jamb or circumferential jamb as corner jamb, sheet steel,		B 10
thickness 2 mm, butt closing door.		
Paint material / color see	Page 202-203	B 11
Door leaf:		
Thickness total approx. 47 mm Edge design butt		B 12
Surface on both sides laminated material panels Material thickness 0.8-0.9 mm thick		
Product GETALIT		B 13
A 420-T Surface vat texture		<u> </u>
		B 14
		B 15
		L

		SOURCE	
Hinges:			B 01
Hinges.	3 ea		= ••
Product	WENÜ		
Type	STUBK 160.4.16		
Surface	Nirosta		B 02
Lock:			
Mortise lock	profile cylinder perforation		
Lock class	4		B 03
Product	BKS		
Article	1206		
Cuff made of:	material 1.4301		D 0.4
Pin size:	65 mm		B 04
Handle set:			
Product:	VIELER		
Article no.:	ER.US.FSHG.522.K2		B 05
Short plate	170/55 mm, on both sides blind, without		
Latertan at ta	profile cylinder perforation		
Interior side:	without handles		B 06
Kick plates	on both sides		Б 00
Stainless steel, sheet thickness	1 mm		-
Height	300 mm		
across full door width			B 07
Fastening	glueing and visible arranged screwing		
Surface sanded	grain 300		
Manufacturer of doors with above list	ted requirements:		B 08
SCHÖRGHUBER			
Spezialtüren GmbH & Co., Betriebs I	KG		
Neuhaus 3			D 00
84539 Ampfing			B 09
Type/no.	13N		
			D 40
Alternative makes are:	SVEDEX		B 10
	WIRUS		
			B 11
			B 12
			B 13
			B 14
			B 15

OSANLON - Nestoration Program of Troop Billets - Standard 1+1		
	SOURCE	
B 07.4.5.2 Doors of distributor cabinets / 2-wing, T-30:		B 01
Rated dimension: Width 1,000 m $-$ 1,500 m Height 2,125 m	DIN 18 100	B 02
Fig. 07.29 Doors in front of distributor cabinets / 2-wing		B 03
		B 04
7.13. E		B 05
		B 06
STOSSBLECH kick plate		В 07
± 1.01 - 1.51		B 08
Door jamb:	DIN 18 111	B 09
Shadow joint jamb or circumferential jamb as corner jamb, sheet steel, thickness 2 mm, butt closing door.		
Paint material / color see	Page 202-203	B 10
Door leaf: Thickness total approx. Edge design Surface Material thickness 47 mm butt on both sides laminated material panels 0.8-0.9 mm thick		B 11
Product GETALIT A 420-T		B 12
Surface vat texture		B 13
		B 14
		B 15

		SOURCE	
Hinges:			B 01
Hinges	3 ea _		
Product	WENÜ		
Type	STUBK 160.4.16		B 02
Surface	Nirosta		Б U2
Lock:			
Mortise lock	profile cylinder perforation		
Lock class	4		B 03
Product	BKS		
Article	2423		
Cuff made of:	material 1.4301		
Pin size:	65 mm		B 04
Hinge locking plate	9000		
Stationary wing			
Secured drive bolt lock			B 05
Product	BKS		
Article	2394		
Switch lock	1895		
Pipe with sliding plug	9008/0018		B 06
Handle set:			
Product:	VIELER		
Article no.:	ER.US.FSHG.522.K2		D 07
Short plate	170/55 mm, on both sides blind, without		B 07
Chert plate	profile cylinder perforation		
Drive bolt lock set	VIELER		
Article	ER.US.FSHG.522.K1		B 08
Viels plates	on hath aidea		
Kick plates	on both sides 1 mm		
Stainless steel, sheet thickness Height	300 mm		
across full door width	300 11111		B 09
Fastening	glueing and visible arranged screwing		
Surface sanded	grain 300		
	gram coo		D 40
Manufacturer of doors with above lis	ted requirements:		B 10
SCHÖRGHUBER			
Spezialtüren GmbH & Co., Betriebs	KG		
Neuhaus 3			B 11
84539 Ampfing			
Type/no.	13 N		
•			B 12
Alternative makes are:	SVEDEX		
	WIRUS		
			D 42
			B 13
			B 14
			B 15

OOR LEAF					
Manufacturer	SVEDEX	WIRUS	SCHÖRGHUBER		B 0
Гуре / no. 1wing	Type 5 / 1 Fl.	T 30-1/Z	13 N / 1 Fl.		
Гуре / no2-wing	Type 5 / 2 Fl.	T 30-2/Z	13 N / 2 Fl.		
Fire protection DIN 4102/T5	T-30	T-30	T-30		
Door thickness total mm	47	45	47		B0
Edge formation	butt	butt	butt		
Area weight kg/m²	35	34	31		
Stress group RAL	S	S	S		
Climate class RAL	II	II	II		B0
Air sound insulation DIN 4109					
Sound insulation size Rw dB					
Sound insulation size Rw,P dB	37	37	37		
					B0
Additional functions:					
Construction supervisory allowance	X	X	X		
DOOR SURFACE / LAMIN	ATED MATERIA	AL PANELS (cold s	eries)		ВО
Manufacturer	GETALIT	DUROPAL	PERSTORP	RESOPAL	
of door collection					
			PP 2010	0160-60	В 0
Color shade	A 420 T	U 1188 KT	(Malibu)	(Silver Grey)	
		LCT	NCS S1000 N	NCS S2000 N	
Surface texture Thickness laminated material	vat paper	KT	KN (Konkret)	NP	
panels mm	0,8	0,8	0,8	0,8	ВО
DOOR SURFACE / LAMIN	ATED MATERIA	AL PANELS (warm	series)		<u> </u>
Manufacturer	GETALIT	DUROPAL	PERSTORP	RESOPAL	
of door collection					B0
			PP 1040	0105-60	
Color shade	A 223 T	U 1011 KT	Alpino	Pearl White	
		1.5=	NCS S 0502 Y	NCS S 0502 Y	
Surface texture	vat paper	KT	KN (Konkret)	NP	B1
Thickness laminated material panels mm	0,8	0,8	0,8	0,8	
HARDWARE / HINGES					
					В1
Manufacturer	WENÜ	SIMONS	VIELER		
linges / article no.	STUKB 160.4.16	VN 7729 3d	ER.TB		
		VN 7608.160	160.3361.ST		
Hinge installation element	120		120		В 1
nax. door weight kg Support bolts	120 X	120 X	120 X	+	
Adjustment possibility	3D	3D	3D		
FOP DOOR CLOSER	30	30	טט		_{B4}
	1		1		B 1
Manufacturer	GEZE	DORMA			
Article no., 1 wing.	TS 5500 S,X	TS 93 NK			
Article no., 2 wing.	TS 5500 IS,X	TS 93 GSRK			B1
Surface	nirosta	stainless steel			
		design	<u> </u>		

	SOURCE	
B 07.4.6 DOORS IN BASEMENT		B 01
All doors in basement will be accomplished as steel doors. The doors shall be accomplished with steel shadow joint jambs to corridors and otherwise as circumferential jambs. Following described door types and qualities will be installed:		B 02
Entrance doors from corridor to office and/or storage rooms shall be equipped with Saflok, acc. to construction supervisory allowance, constructed in fire resistance class T 30 and installed. An allowance in individual case is not required.		B 03
Doors form corridor into latrines shall be equipped with locks for profile cylinders.		B 04
Doors between rooms, office and/or storage rooms shall be equipped with locks for profile cylinders.		B 05
Arms rooms shall be equipped with special doors.		
If mechanical rooms are accessible as single rooms from corridors, doors with a fire resistance duration of 30 minutes (T 30-1) shall be installed. The Saflok locking device shall be installed in wall.		B 06
NOTE: The unevenness of sheet metal shells of door leaves such as bulges and swellings shall not exceed the values of DIN 59 232.		В 07
All door systems shall be accomplished with door rebate sealings made of APTK material, color shade black. If construction supervisory requirements/allowances of other sealings are		B 08
requested, these shall be accomplished.		B 09
		B 10
		B 11
		B 12
		B 13
		B 14
		B 15

B 07.4.6.1 DOORS IN BASEMENT	from corridor to rooms	SOURCE	B 01
allowance in fire resistance class T 3	tructed acc. to construction supervisory 0 and installed as well as with burglar A construction supervisory allowance in	DIN 4102 DIN V 18103	B 02
Rated dimension Width Height	1.00 m 2.125 m	DIN 18 100	В 03
Clear passage dimension Width Height	0.910 m 2.093 m	DIN 18 111	B 04
rioight	2.000 111		
only approx. 2.00 m. To avoid	door openings have a rated dimension of costly alterations, the door height to be with USAREUR upon commencement of		B 05
	al jamb or corner jamb with counter jamb, ainless steel locking plate will be installed		B 06
flush with surface.			D 07
Execution Surface	analogous Fig. 07.24 , without peep hole painted		B 07
Material / color	see	Page 202-203	
Door leaf:			B 08
allowance in fire resistance class T 3			
Thickness approx. Edge design	54 mm rabbet		B 09
Sheet thickness	1.5 mm, galvanized fine sheet metal		
NOTE: The unevenness of sheet metal sh swellings shall not exceed the values	nells of door leaves such as bulges and of DIN 59 232.		B 10
Jamb:			
	al jamb or corner jamb with counter jamb,		B 11
Hinges:	200/40/5 mm		B 12
2 hinges	acc. to allowance, at least 200/16/5 mm, with ball bearing, secured by threaded pins		
La alcina avetares			B 13
Locking system: Electronic magnet card opening systems	em		
Product	SAFLOK Classic V		B 14
Type Article	168 1000		D 14
Interior and exterior side with handle Surface	US 26 D		
			B 15

	SO	URCE
Lock: Extra heavy-duty, hardened	spring bolt and dead bolt, without dead bolt	B 01
arrester		
Pin size: Article:	70 mm 168 1160	B 02
NOTE: Excepted are both entrance do be installed in them:	oors in latrine facilities, a lock (no Saflok) shall	B 03
Lock: Mortise lock	profile adjuder perferation	
Lock class	profile cylinder perforation 4	В 04
Product	BKS KIMA	
Article Cuff made of:	20 KU material 1.4301	
Pin size:	65 mm	B 05
	or acc. to construction supervisory allowance	
Kick plates	on both sides	B 06
Stainless steel, sheet thicknes	s 1 mm	B 00
Height/room side across full door width	300 mm	
Fastening	glueing and visible arranged screwing	В 07
Surface, sanded	grain 240	
Manufacturer of doors with ab-	ove listed requirements:	D 00
HODAPP		B 08
77 855 Achern Großweierer Straße 77		
Type/no.	SNT - 1/ET-1/ RS	В 09
Alternative makes are:	Franzen Feuerschutztüren	
	41812 Erkelenz Gerhard Welter Straße 7	
		B 10
	Körner Stahltore 21335 Lüneburg - Oederne	
	Häcklinger Weg 47	B 11
	Hörmann	
	33803 Steinhagen	
	Upheider Weg 94 - 98	B 12
		D 42
		B 13
		B 14
		
		B 15

B 07.4.6.1 DOORS IN	BASEMENT (fr	om corridor to	rooms)	SOURCE	B 04
DOOR LEAF					B 01
Manufacturer	HODAPP	FRANZEN	KÖRNER	HÖRMANN	
Type/ no.	SNT-1/ET-1/ RS	SNT-1 /RS	SNT-1 /RS	T30 –1 / H3	B 02
Construction acc. to DIN 18 082	Х	Х	X	X	
Fire protection DIN 4102/T5	T 30	T 30	T 30	T 30	
Door thickness total mm	54	54	54	55	Б 00
Edge formation	F	F	F	F	B 03
Air sound insulation DIN 4109					
Sound insulation sizie Rw dB					
Sound insulation size Rw,P dB					B 04
Additional functions:					B 07
Smoke protection DIN 18 095	X	X	X	X	
Floor sealing	X	X	X	X	
HARDWARE / HINGES					B 05
Manufacturer					
Hinges / article no.	nZ	nZ	nZ	nZ	B 06
Hinge installation element					
max. door weight kg					
Support bolts					D 07
Adjustment possibility					B 07
Manufacturer Article no., 1-wing.	Geze TS 5500 S,X	Dorma TS 93 NK			B 08
Article no., 2-wing Surface	nirooto	niroata			
= to be accomplished and formation = acc. to construction sup		nirosta	I		В 09
M = door leaf with mineral was BD = three-dimensional adjust	ool filling				B 10
					B 11
					B 12
					B 13
					B 14
					B 15

			SOURCE	
B 07.4.6.2	DOORS IN BASEMENT DOORS BETWEEN ROOM	MS (office and/or storage rooms)		B 01
		out PU-filling. Only door leaves with a		B 02
Rated dimens Width Height	ion: 1,000 m 2,125 m		DIN 18 100	В 03
Clear passage Width appro	ox. 0,910 m		DIN 18 111	B 04
EXCEPTIONS It is possible to only approx. 2	nat existing basement door 2.00 m. To avoid costly	openings have a rated dimension of alterations, the door height to be USAREUR upon commencement of		B 05
	ickness 2 mm. A stainless	b or corner jamb with counter jamb, s steel locking plate will be installed		B 06
Execution Surface Material / color	pain		Page 202-203	B 07
Door leaf:	see		raye 202-203	B 08
	rabb	55 mm		B 09
	ss of sheet metal shells on not exceed the values of DII	of door leaves such as bulges and N 59 232.		B 10
Hinges: 2 hinges	acc.	. to allowance		B 11
Lock: Mortise lock Lock class Product	4	ile cylinder perforation		B 12
Article Cuff made of: Pin size:	20 K mate 65 n	erial 1.4301		B 13
Handle set: Product Article no. Short plate		LER US DG.522.K2 /55 mm with perforated cylinder		B 14
·		oration		B 15

- COARLOR - Restoration Flogram of Ti	oop billets - Standard 1+1		
		SOURCE	
Kick plates Stainless steel, sheet thickness Height/room side	on both sides 1 mm 300 mm		B 01
across full door width Fastening Surface, sanded	glueing and visible arranged screwing grain 240		B 02
Manufacturer of doors with abo	•		
HODAPP	·		B 03
77 855 Achern Großweierer Straße 77 Type/no.	MZ - 1		B 04
Alternative makes are:	Franzen Feuerschutztüren 41812 Erkelenz		
	Gerhard Welter Straße 7		B 05
	Körner Stahltore 21335 Lüneburg - Oederne		
	Häcklinger Weg 47		B 06
	Hörmann 33803 Steinhagen Upheider Weg 94 - 98		B 07
			B 08
			B 09
			B 10
			B 11
			B 12
			B 13
			B 14
			B 15

				SOURCE	
3 07.4.6.2 DOORS BETWI	EEN ROOMS				B 01
MANUFACTURER	HODAPP	FRANZEN	KÖRNER	1	
Гуре / по.	MZ-1	MZ-1	MZ-1		B 02
Fire protection DIN 4102/T5					
Door thickness total mm	54	54	54		
Edge formation	F	F	F		
Area weight kg/m²			<u>'</u>		B 03
kir sound insulation DIN 4109					
Sound insulation size Rw dB					
Sound insulation size Rw,P dB					
Door filling	M	М	M		B 04
Additional functions:	IVI	IVI	IVI		
construction supervisory allowance					D 05
IARDWARE / HINGES					B 05
Manufacturer linges / article no.					
linges / article no.					В 06
					5 00
nax. door weight kg Support bolts					
Adjustment possibility					
					B 07
TOP DOOR CLOSER					
Manufacturer					
Article no., 1-wing					B 08
Article no., 2-wing					
Surface					
= to be accomplished and/or ir = fold formation	nstalled				В 09
= acc. to construction supervis	sory allowance				
					B 10
					B 10
					B 10
					B 10
					B 10
					B 11
					B 11
					B 11
					B 11
					B 11
					B 11
					B 11
					B 11
					B 12
					B 12
					B 12
					B 12

OSANLON - NO	storation Frogram or Troop	Bilicis - Gtaridard 111		
			SOURCE	
B 07.4.7	Doors Arms Roo	m		B 01
A double doo	or security system sha	II be used throughout USAREUR Barracks.	DOD 5100-76-M B 07	B 02
steel plate commercial	(thickness 12 mm) p construction. The cor	nm thick solid wood or laminated wood with a blanked on the exterior side or as standard instruction shall have a resistance class ET 2, a test certificate and must be tested for bullet		B 03
expansion-fr lifting of the	ee void filler to preve door frame. Frames	shall be firmly anchored and provided with ent unlocking of door bolt through prying or and locks of interior and exterior doors shall		B 04
mechanism		to facilitate unlocking of the door bolt of a is closed and locked.		B 05
regulations f should be a	or the actual doors. If lso of metal. A steel lock with changeable	thresholds shall be in accordance with the metal doors are used, frames and thresholds arms vault door, class 5, with integral three-combination can be installed instead of other		B 06
fixed pins or hinge pins	equivalent hinges should be cold harde oval; hinge mounting	commercially available. Safety hinges with ould be selected for security zones; exposed ened, spot welded or protected otherwise to screws should not be exposed on the exterior		B 07
Interior doo The follow described o	r (room side): ing described arms	s room door and flap meet the above ns room doors and flaps not meeting these 7.30.		B 08
Product		HODAPP M4-SF-ET3		B 10
Material colo	or list	see	B 08	
Rated dime Width Height	nsion:	1.000 m 2.125 m	DIN 18 100	B 11
Width	ge dimension: approx. approx.	0.910 m 2.093 m	DIN 18 111	B 12
		2.010 m ed. This solution shall be always coordinated		B 13
WILLI FIQ USA	ANEON PHOLIO ACCOM	ipiisiiilieiit.		B 14
				B 15

SOURCE B 01 Fig. 07.30 Arms room – security door **STPLAN** W3 001.00 G B 02 B 03 SPION viewer 62^{5} **B** 04 2.135 Û B 05 1.60 1.30 **B** 06 STOSSBLECH WST 1.4301 kick plate 30 B 07 MIN. 12⁵ 1.01 1.25 **B** 08 **B** 09 **B** 10 B 11 B 12 B 13 **B 14** B 15

	SOURCE	
Exterior Doors: (Fig. 07.31) [Corridor Side]:		B 01
The frame of exterior doors consists of a three-sided angle frame, angle 65/65/8 mm, St. 37.2. The angle steel frame shall be fastened in the wall, at least one each side with 4 and on the top side in the center with a flat anchor 40/4 mm, to prevent the door from being dismantled from outside. The angle frame shall be extended by an entire longitudinal welding at two locations with a flat steel 40/8/250 mm.		B 02
Exposed door hinges - at least three each - shall be secured to prevent the door from being pried or dismantled from outside.		B 03
The door wing consists of vertical frame profiles, of flat steel bars 40/24 mm and horizontal flat steel bars 40/14 mm and 18 flat steel bars cross 40/14 mm. The clear distance of horizontal flat steel bars among each other shall be max. 10 cm.		B 04
These flat steel bars shall be drilled at max. distance of 10 cm. Vertical round bars made of full steel 14 mm diameter shall be lead through; the round bars shall be welded on each cross bar from bottom and top side. Flat steel panels 80/8/300 mm shall be completely welded in the area of hasps as support area		B 05
for the hasps.		B 06
A issue counter shall be arranged in the center of door Width 30 cm Height 15 cm A steel plate shall be welded to the issue counter Dimension 30 / 20 / 0.4 cm		В 07
welded on the center flat bar; projection towards outside max. 5 cm rounded edges of plate.		B 08
Fig. 07.33 Two hasps of flat steel 40/4 mm shall be installed on the inner side; they shall be welded once to the frame and once to the door frame. Both parts shall have a drilling of 12 mm diameter.		B 09
Two hasps for a padlock shall be welded 1 x on the outside with the angle frame and 1 x with the door frame. Both hasps shall be U.S. Government furnished, installation shall be within the project scope. Size, see Fig. 07.33		B 10
312e, See Fig. 07.33		B 11
B 07.4.8 Issue window: (Fig. 07.31 / 07.32) The interior section of the issue window 60 x 60 cm shall be in accordance with the criteria for the interior door.		
The same lock shall be installed as used for the interior door (Hodapp M4-SF-ET3).		B 12
A swing exterior door with safety grille shall be installed on the outside, with a hasp for a padlock, drilling 12 mm, (lock of series 200). [Construction of hasp see entrance door outside].		B 13
A steel plate, $250 \times 150 \times 4$ mm shall be welded on the outside, in front of the hasp, as protection for the hasp.		B 14
		D 15
		B 15

SOURCE

The exterior grille shall be manufactured according to the same principle as the lattice door.

B 01

The railing between inner and outer door shall be filled with a multiplex board, thickness 30 mm, it shall be painted with DD-paint (without solvent).

B 02

Arms room lattice door with issue counter, installation on corridor side.

Fig. 07.31 Arms room exterior door grille door

B 03 STPL.

W3 001.00 G

B 04

B 05

B 06

B 07

B 08

B 09

B 10

B 11

B 12

B 13

B 14

B 15

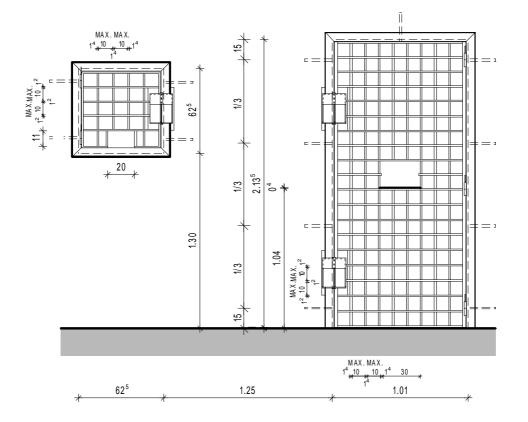
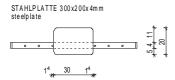


Fig. 07.32



Arrangement of hasp in the area of arms room lattice door area

SOURCE B 01

B 02

B 03

B 04

B 05

B 06

B 07

B 08

B 09

B 10

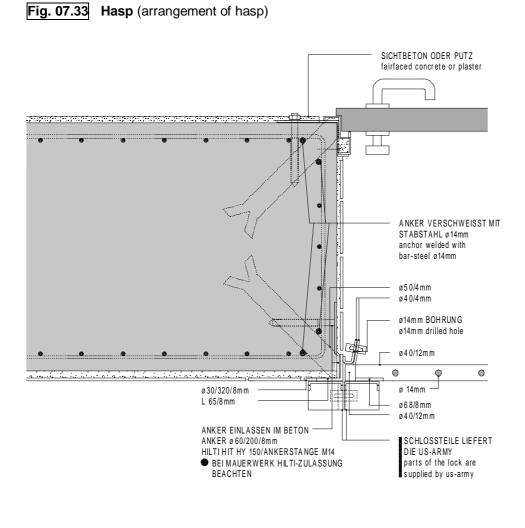
B 11

B 12

B 13

B 14

B 15



USAREUR - Resid	bration Program of 1	roop Billets - Standard 1+1		Γ
			SOURCE	
B 07.4.9	STAIRCASE A	ACCESS DOORS AND		B 01
	FIRE SECTION	N DOORS IN CORRIDORS made of steel		
Fire resistance Construction ty		30 minutes – fire resistance class T 30 B-T 30-1, T 30-2	DIN 4102 DIN 18 082 T1/T2	B 02
shall be in acc also conform construction so of doors shall construction s	ordance with the with required supervision approper be in conformation appropersion app	re section doors are fire protection doors. They e required fire resistance classes. Glazing shall fire resistance classes. Only structures with eval, or DIN tested, shall be installed. Installation nance with manufacturer's instructions and the roval, since otherwise the door will loose its		B 03
approval. Stee	el frames shall b	e grouted voidlessly.		
resistance cla	ss of door an	glass recesses; these shall conform with the fire d together with the door have a construction glazings are allowed.		B 05
The following of	loor types and/o	r dimensions shall be installed:		
Staircase acc				B 06
Minimum rated Width	dimensions:	1.125 m		B 07
Height		2.125 m		
Fire section d	oors:			
At corridor wid	ths up to 1.70 m	= one-wing doors		B 08
Minimum rated Width		1.125 m		
Height		2.125 m		B 09
At corridor wid	ths more than 1	.70 m - 2.20 m = two-wing doors, asymmetrical		
division		3 · · · · · · · · · · · · · · · · · · ·		
Dimensions: Width		1.50 - 2.00 m		B 10
Height		2.125 m		
		netrically divided doors shall have a minimum this wing will be provided with a glass recess.		B 11
		20 m = two-wing doors, symmetrical division		
Min. nominal d Width as	imensions: s of	2.125 m		B 12
Height		2.125 m		
Door leaves: Thickness		as per test certificate rabbeted		B 13
Edge design Surface		sheet steel, min. 1.5 mm thick		
NOTE:				B 14
Unevenness o		such as dents and depressions, shall not exceed		
me values as β	er DIN 59 232.			
				B 15

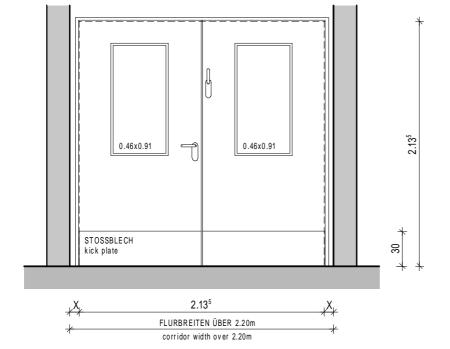
		SOURCE	
Door jamb: Shadow joint jamb or circumfered	ntial jamb, on stainless steel locking plate,		B 01
	cking plate shall be fastened with stainless		
steel rivets at 2-wing door systems.			
			B 02
Sheet thickness	2 mm		
Surface	painted	D 00	
Material / color	see	B 08	B 03
Glass recess:			D 03
Form	rectangular		
Width	46 cm		
Height	91 cm		B 04
Glazing	F 30	DIN 4102	
Hinges:	visory allowance however at lest 2 as hall		D 05
bearing hinges and 2 ea securing b	visory allowance, however, at lest 2 ea ball		B 05
bearing ninges and 2 ea securing b	oits.		
Product	acc. to construction supervisory		
	allowance		B 06
Closing one-wing doors:			
Overhead door closer			
Deschart	0575		B 07
Product	GEZE		J
Article Cover cap	TS 5500 S,X Nirosta		
Cover cap	Miosta		D 00
Adhesive magnet with installation	panel, operation voltage 24 V DC, holding		B 08
power 800 N.			
Product	GEZE		
Article	48386		B 09
Adhesive counter plate	48389		
Closing of two-wing doors:			
	oor closer with integrated locking sequence		
control. Continuously over both do			B 10
	,g.		
Product	GEZE		
Article	TS 5500 IS,X		B 11
Cover cap	Nirosta		611
	panel, operation voltage 24 V DC, holding		
power 800 N.			
Product	GEZE		B 12
Article	48386		
Adhesive counter plate	48389		
Lock for one-wing doors:			B 13
Lock	class 4		
Cuff	stainless steel, rounded		
Pin size Pin clamp nut	65 mm 9 mm		B 14
Product	BKS		514
Article	2320 Panik		
Change-over function:	B		
-			B 15

		SOURCE	
Lock for two-wing doors:			B 01
Mobile wing Product Article Pin size Steel clamp nut Handle pin	trap lock BKS 2321 panic trap lock 65 mm 9 mm B 76/76		B 02
Stationary wing			B 03
Product Article	BKS 2390 panic drive bolt lock special function decoupled		B 04
Article Switch lock Pipe with sliding plug Reversing lock	2528 reversing lock automatic locking effective towards top of stationary wing with drive bolt rod being under spring pressure 1895/0003 9008/0018 2598		B 05
Handle set for one-wing doors:	\/(E) ED		B 06
Product Type	VIELER ER.US.FSG.522.K2 fire retardant set short plates 170/55 mm, profile cylinder perforation		B 07
Handle set for two-wing doors			B 08
Mobile wing: Product Type	VIELER ER.US.FSHG.522.K2 short plates 170/55 mm, profile cylinder perforation		В 09
Stationary wing Product	VIELER ER.US.FSHG.522.K1		B 10
	short plates 160/45 mm, profile cylinder perforation		B 11
Kick plates Height Stainless steel	on both sides of door leaves 1 mm thick 300 mm grain 240		B 12
Fastening	glued and exposed screw fastening		
			B 13
			B 14
			B 15

SOURCE B 01 Fig. 07.34 Doors of corridor widths up to 1.70 m B 02 **B** 03 **B** 04 0.46x0.91 B 05 STOSSBLECH kick plate **B** 06 1.13⁵ FLURBREITE BIS 1.70m corridor width to 1.70m **B** 07 Fig. 07.35 Doors of corridor width from 1.70 m – 2.20 m **B** 08 B 09 **B** 10 B 11 **B 12** STOSSBLECH kick plate **B** 13 1.13⁵ FLURBREITEN VON 1.70m BIS 2.20m corridor width from 1.70m to 2.20m **B** 14 B 15

SOURCE

Fig. 07.36 Doors with a corridor width more than 2.20 m



B 01

B 02

B 03

B 04

B 05

B 06

B 07

B 08

B 09

B 10

B 11

B 12

B 13

B 14

B 15

				SOURCE	
	E ACCESS DOO S made of ste		SECTION DOOF	RS IN	B 01
1 and 2-win	g				
DOOR LEAF					B 02
Manufacturer	HODAPP	FRANZEN	KÖRNER	HÖRMANN	
Type / no. 1-wing	SNT-1 / RS	SNT-1 / RS	SNT -1/ RS	T30-1 / H3 /.RS	—
Type/ no. 2-wing	SNT-2 / RS	SNT-2/RS	SNT-2 / RS	T30-2 / H3 / RS	B 03
Construction type DIN 18082	Χ	X	X	X	
Fire protection DIN 4102/T5	X	X	X	X	
Door thickness total mm	54	54	54	55	
Edge formation	F	F	F	F	B 04
Area weight kg/m²					
Air sound insulation DIN 4109					
Sound insulation size Rw dB					
Sound insulation size Rw,P dB					l в 05
Fire protection pane F30	Х	Х	Х	X	
Additional functions:					1
Construction supervisory	х	Х	х	Х	
allowance					В 06
Smoke protection	Х	Х	X	X	D 00
Panic function	X	X	Х	X	
HARDWARE / HINGES					B 07
Manufacturer					
Hinges / article no.	nZ	nZ	nZ	nZ	
Hinge installation element					
max. door weight kg					B 08
Support bolts					
Adjustment possibility					
Acc. to allowance / with ball bearing	Х	Х	Х	Х	B 09
TOP DOOR CLOSER					
Manufacturer	GEZE	DORMA	1		
Article no., 1 wing.	TS 5500 S, X	TS 93 NK			B 10
Article no., 2 wing.	TS 5500 IS, X	TS 93 GSRK			<u> </u>
Surface		nirosta			
	nirosta	Hilosta			B 11
F = fold formation					
nZ = acc. to construction sup	ervisory allowance				
M = door leaf with mineral w					
3D = three-dimensional adjus	stable ninge				B 12
					B 13
					613
					544
					B 14
					1
					B 15

		SOURCE	
B 07.4.10	Doors in front of electrical distributor cabinets / corridors basement 1 / 2-wing, fire resistance class T30		B 01
B 07.4.10.1	Doors in front of distributor cabinets / 1-wing:		
Rated dimens	-	DIN 18 100	B 02
Width	0,885 m – 1,000 m	DIN 18 100	
Height	2,125 m		B 03
B 07.4.10.2	Doors in front of distributor cabinets / 2-wing:		
Rated dimens	sion:	DIN 18 100	B 04
Width Height	1,000 m – 1,500 m 2,125 m		
Accomplishm			B 05
be accomplish	ems shall have a construction supervisory allowance. They shall ed as steel doors in same construction type, with same hardware as door systems described in section B 07.4.5 and B 07.4.5.1 .		
Drawings	Fig. 07.28	Page 149	B 06
and	Fig. 07.29 se for these door systems.	Page 151	
			B 07
			B 08
			B 09
			B 10
			B 11
			B 12
			B 13
			B 14
			B 15

				SOURCE	
07.4.10 Doors in basemer	front of electricant	al distributor cal	oinets / corridor	'S	B 01
1-wing, 2	2-wing fire resist	ance class T30			
OOR LEAF					B 02
Manufacturer	HODAPP	FRANZEN	KÖRNER	HÖRMANN	
Гуре/ no. 1 wing	SNT-1	SNT-1	SNT-1	T 30-1/ H3	
ype / no. 2 wing	SNT-2	SNT-2	SNT-2	T 30-2/ H3	B 03
Construction acc. to DIN 18 08		Х	Х	X	
Fire protection DIN 4102/T5	X	X	Χ	X	
Ooor thickness total mm	54	54	54	55	
dge formation	F	F	F	F	B 04
rea weight kg/	m²				
air sound insulation DIN 4109					
Sound insulation size Rw dB					_
Sound insulation size Rw,P dE	3				B 05
					
Additional functions:					
Construction supervisallowance	x	X	X	X	B oc
HARDWARE / HINGES					B 06
N anufacturer					D 07
linges / article no.					B 07
linge installation element					
nax. door weight k	g				
Support bolts					B 08
Adjustment possibility					B 00
TOP DOOR CLOSER					
Manufacturer	GEZE	DORMA			B 09
Article no., 1-wing	TS 5500 S,X	TS 93 NK			
Article no., 2-wing	TS 5500 IS,X	TS 93 GSRK			
Surface	nirosta	nirosta			
to be a consultation					B 10
to be accomplishedfold formation	anu/or installed				
Z = acc. to construction	supervisory allowance	е			
1 = door leaf with miner	ral wool filling				_
D = three-dimensional a	adjustable hinge				B 11
					B 12
					B 13
					B 14
					B 14
					B 14
					B 14

		SOURCE	
B 07.4.9.11 EXTERIOR ACCESS DOORS – STAIRWELLS - MECHANICAL			B 01
Exterior access doors to stairwells and to joint mechanical shall be accomplished in construction and type of a T 30 door system, also the glazings. The installation of doors shall be accomplished acc. to manufacturer regulation. Steel jambs shall be filled without hollow space. Required reinforcements for top door closer, special door stopper shall be installed.			B 02
Minimum rated dimensions: Width Height	1,125 m 2,125 m		B 03
The transportation of construction of constructions, then these s	ction parts of mechanical can require wider door shall be accomplished.		B 04
Door leaves: Thickness Edge formation Surface	54 mm closing into rebate sheet steel, at least 1.5 mm thick, galvanized		B 05
Door jamb: Shadow joint jamb or circumfe be installed flush with surface. Sheet metal thickness	erential jamb, one stainless steel locking plate will 2 mm galvanized		B 06
Surface Material / color	painted see	Page 202-203	B 07
NOTE: The unevenness of sheet metal shells of door leaves such as bulges and swellings shall not exceed the values of DIN 59 232.			
Glass recess: Shape Width Height Glazing	rectangular 46 cm 46 cm VSG/ESG		B 09
Hinges: Hinges acc. to construction supervisory allowance, however, at least 2 ea ball bearing hinges and 2 ea securing bolts.			
Product	acc. to construction supervisory allowance		B 11
Lock for one-wing doors: Lock Cuff Locking plate Pin size	class 4 stainless steel, rounded stainless steel, rounded 65 mm		B 12
Pin clamp nut Product Article	9 mm BKS KIMA 20 KU		B 13
Locking system: Electronic magnet card opening system Product SAFLOK Type Classic V			B 14
with protective covering / plexi 180 / 180 / 80 mm sealing of joints, installation in			B 15

		SOURCE	
Electrical door opener: Electrical door opener with a stainless steel cuff, cable entrance water-proof, accomplishment 12 V, electrical delocking, eE (100 % turn-on duration) with			B 01
recovery diode.		B 02	
Handle set:			
Product Type	VIELER ER.US.WG4.522.K2 FH set short plate 170/55 mm, without profile		В 03
	cylinder perforation		B 04
Kick plates Height Surface, sanded	on both sides of door leaves 1 mm thick 300 mm grain 240		B 05
Fastening	glueing and visible arranged screwing		
Door stopper: Special make see	STPL T3 001 00G		B 06
B 07.4.11.1 Doors in mechan	ical		
Door systems in mechanical shall be accomplished as steel doors as far as required. Accomplishment and quality acc. to section B 07.4.6.1. Page 155			B 07
Rooms requiring door systems with a fire resistance acc. to section B 07.4.9 and acc. to construction supervisory allowance, Hardware in black type, made of steel, accomplishment and installation		Page 166	B 08
lockings se	Page 134		
B.07.4.11.2 Doors in upper at	itic		B 09
Door systems in upper attic shall be accomplished as steel doors as far as required. Accomplishment and quality acc. to section B 07.4.6.1. Page 155			B 10
Rooms requiring door systems with a fire resistance class shall be accomplished and installed with a fire resistance class acc. to section B 07.4.9 and acc. to construction supervisory allowance, hardware in black type, made of steel see Fig. 07.23		Page 166	<u> </u>
		Page 134	B 11
			B 12
			B 13
			B 14
			—
			B 15

				SOURCE	
B 07 4.11 EXTERIOR Steel doors		RS – STAIRWE	LLS - MECHANI	CAL	B 01
DOOR LEAF					B 02
Manufacturer	HODAPP	FRANZEN	KÖRNER	HÖRMANN	B 02
Type / No.	SNT-1	SNT-1	SNT-1	T 30-1 / H3	
Construction acc. to DIN 18 202 T3		Х	Х	X	B 03
Fire protection DIN 4102/T5					
Door thickness total mm	54	54	54	56	
Edge formation					
Area weight kg/m²					B 04
Air sound insulation DIN 4109					
Sound insulation size Rw dB					
Sound insulation size Rw,P dB					
Additional functions:	V				B 05
Special door stopper	X	X	X	X	
Saflok/electr. door opener Construction supervisory		^	^	Λ	
allowance					
Door supply air	X*	X*	X*	X*	B 06
HARDWARE / HINGES					
Manufacturer					B 07
Hinges / article no.					J
Hinge installation element					
max. door weight kg					
Support bolts					B 08
Adjustment possibility					
TOP DOOR CLOSER					B 09
Manufacturer	GEZE	DORMA			
Article no., 1-wing.	TS 5500 S,X	TS 93 NK			
Article no., 2-wing					
Surface	nirosta	nirosta			B 10
= to be accomplished and	l/or installed				
F = fold formation					
NZ = acc. to construction sup M = door leaf with mineral w	pervisory allowance				544
M = door leaf with mineral w BD = three-dimensional adjus					B 11
= shortening of door leaf i		ply air			
					B 40
					B 12
					B 13
					513
					B 14
					B 15

		SOURCE	
B 07.4.12 ENTRANCE DOORS	5 – main entrances	0001102	B 01
Building entrance doors shall be proved and of oak wood. Minimum wood to	vided as 1-wing doors, as solid wood doors		
Recommended Design:		STPL	B 02
g		T3 001 00G	
Type 1 from Type 2 up to	1.25 m width 1.50 m width		B 03
Type 3 more than	1.50 m width		
Minimum clear passage door open Width Height	ing 1.125 m 2.125 m		B 04
	d on doors with a width of up to 1.50 m. oth sides, if doors are wider than 1.50 m.		B 05
Special types are possible, if oppreservation requirements must be o	penings already exist, or if monument bserved.		B 06
EXECUTION: The entire door structure including w oak wood. Surfaces shall be painted	ooden fillers shall be manufactured of solid transparent.		В 07
Frames and/or freeze widths shall be the Saflok hardware.	e adapted to installed hardware, especially		
Glazing beads made of solid wood, w		B 08	
Minimum frame thickness 68 mm Surface treatment of entire door system with an open pore transparent enamel with light pigments, so that no graying will arise. In requirements of following painting group, with a dry layer thickness of at least 70 mü.			B 09
Paint group	B 6/II E	IfFt *)	
Hardware: Hinges	3 ea per door		B 10
Product	SIMONS		
Article Material	VS 1939 1.4301		B 11
Lock:			
Lock class Product	4 BKS KIMA	DIN 18 251	
Article	20 KU		B 12
Clip follower Forend	9 mm stainless steel, rounded		
Electrical door opener:			B 13
Electrical door opener with a stainless steel cuff, cable entrance water-tight, accomplishment 12 V, electrical delocking, eE, (100 % turn-on duration) with recovery diode.			
The door facility shall be rebated three times, so that the closer of the electrical door opener will not be exposed.			B 14
Sissifical abol opener will not be e	Aposou.	STPL	
*) Institut für Fenstertechnik e.V., Rosenheim			B 15

		SOURCE	
To be installed:			B 01
Product Article No. Cuff	Eff-Eff 141 05 Fafix, 12V, eE, SI IW (US) Nirosta		B 02
Locking system: Electronic magnetic card opening sy Product Type	stem SAFLOK Classic V		В 03
with protective cover / plexiglass 180 / 180 / 80 mm joints to be sealed, installation in wal	ll or in stationary part of door system		B 04
Handle set: Product Article	VIELER ER.US.WG.2.522.K2 without PC-perforation		B 05
Kick plates: Material Sheet thickness Height	on both sides stainless steel 1 mm thick 300 mm across full door width		B 06
Fastening Surface	glued and exposed screw fastening grain 240		B 07
	drip groove, shall be attached over the kick ove strip shall be attached on the door 40 x 50 mm		B 08
Special arresters installed on top s arrester can be only installed if the u	hall be preferred. The following described se of these arresters is not possible.		B 09
Special door arrester: Made of stainless steel pipes with a	suspension device to wall, fastened on top.	STPL T3 004 00G	B 10
Door arrester alternative: Product	KWS door arrester		D 44
Article	1010		B 11
GLAZING Glass type	composite security glass, consisting of VSG-glass, minimum thickness 10 mm		B 12
			B 13
			B 14
			B 15

USAREUR - Restoration Program of Troop Billets - Standard 1+1		
	SOURCE	
ENTRANCE DOORS Type 1 - 3 (Fig. 07.37)		B 01
G = VSG – laminated glass		
		B 02
Fig. 07 27 Tur. 4/9/2		
Fig. 07.37 Typ 1/2/3		D 00
		B 03
		B 04
		B 05
		B 06
		B 06
SAFLOK SAFLOK		B 07
		B 08
STOSSBLECH _		B 09
kick plate 80		
WIN.1.25 m VON 1.25 BIS 1.50 m		B 10
X		
MINDESTBREITE 1.50m		B 11
		B 12
		B 13
		B 14
		B 15
		D 13

OSANEON - Nestoration Program of Troop Billets - Standard 1+1		
	SOURCE	
B 07.4.13 WINDOWS		B 01
GENERAL: Windows can generally consist of various materials. Existing design guidelines for troops barracks buildings referring to material and color design shall be observed in design and execution.		B 02
In case of existing windows which can be maintained, newly installed windows shall match existing windows in construction and material.		B 03
The following types can be selected:		
 Wooden windows Plastic windows with interior steel reinforcement for fastening of insect protection Aluminum windows 		B 04
Composite steel structures		B 05
Material to be selected shall already exist at the site or be specified in the "Installation Design Guide".		
The glass areas of the windows shall achieve at least 1/10 of room basic area. If lower dimensions are required due to structural forces (smaller window openings), these shall be coordinated with USAREUR at commencement of		B 06
design.		B 07
Recommended accomplishment of windows: The following shown window type 1, 2-wing window with settling wood and 2 turn-tilt wings shall be installed for bedrooms. Recommended type Fig. 07.38. Type 2 (Fig. 07.40) is recommended at larger openings.		B 08
In areas where the point of views of protection of historic buildings and monuments are important, solutions acc. to type 1A and 2A (Fig. 07.39 and 07.41) can be chosen.		B 09
For windows in bathrooms, window type 3 (Fig. 07.42) for protection of historic buildings and monuments type 3 A (Fig. 07.43).		B 10
Window Quality: Guidelines and recommendations of the Institut für Fenstertechnik, Rosenheim, shall be binding for design and execution. The requirements of the quality associations (RAL-Quality) shall, furthermore, be used as minimum requirement for the execution of windows. These are:		B 11
 Institut für Fenstertechnik e.V., Rosenheim Paint Group for Wood in Exterior Application Provision of Connections Between Windows and Structure 	IfFt*)	B 12
 RAL Quality Assurance RAL-RG 424-1 - Test Requirements for Wooden Windows RAL-RG 636-1 - Quality and Test Requirements for Aluminum Windows RAL-RG 716-1 - Quality and Test Requirements for Plastic Windows 	RAL-RG 424-1 RAL-RG 636-1 RAL-RG 716-1	B 13
Wood window profiles At least profiles of construction type IV 68 shall be accomplished at wood window profiles acc. to DIN 68 121. The weight of panes may require profiles	DIN 68 121	B 14
of construction type IV 78 depending on the size of the window wing.		
		B 15

	SOURCE	
Hardware quality The entire hardware shall be selected on the basis of the leaf weight; selection of a lower hardware class (weight class) is unacceptable. Requirements of DIN EN 77, DIN EN 107 shall be observed.		B 01
		B 02
Requirements shall be met according to RAL-RG-607-3 - Quality and Test Requirements for Turn/Tilt Hardware	RAL-RG-607-3	
The following requirements shall be observed for window construction: DIN EN 42 - Test Procedure for Windows, Testing of Joint Permeability DIN EN 77 - Test Procedure for Windows, Testing of Wind Resistance	DIN EN 42 DIN EN 77	B 03
DIN EN 86 - Test Procedure, Testing of Pelting Rain Resistance under Static Pressure DIN EN 107 - Test Procedure for Windows- Mechanical Tests	DIN EN 86 DIN EN 107	B 04
Thermal protection:		
All constructions shall correspond at least to frame material group 2.1 W/(m2K).	DIN 4108 T4	B 05
Building connections: Building connections shall be carefully designed in reference to sound protection as well as to thermal protection. The recommendations of Institut für Fenstertechnik shall be observed.		B 06
Joint permeability / Resistance against Pelting Rain Windows shall at least meet the Stress Group B, DIN 18 055 These shall be observed in areas where higher requirements are existing.	DIN 18 055	B 07
Sound insulation Basis for evaluation and design of sound insulation of windows is VDI 2719 Sound Insulation of Windows and Additional Equipment	VDI 2719	B 08
All windows shall at least be in conformance with Sound Insulation Class 3. Increased requirements can apply to sites under increased noise accumulation. They shall be coordinated with USAREUR prior to commencement of design.		B 09
Insect protection: Insect protection shall be installed at all windows – except stairwell windows, corridor windows and mechanical rooms. Accomplishment acc. to Fig. 07.44.	STPL 13 001 00G	B 10
Windows shall be provided with an insect protection on exterior side. The bracing frames shall be accomplished in aluminum powder coated (color shade adjusted to windows). The constructions are easily removable (due to later renovations). Fastening to blind frame and/or settling wood. The bracing made of non-rottening fiberglass fabric with high light passage.		B 11
or non-rottering libergiass rablic with high light passage.		B 12
		B 13
		B 14
		B 15

DESIGN GUIDELINES

USAREUR - Restoration Program of Troop Billets - Standard 1+1

Colly elastomers such as EPDM are allowed as sealing profiles, corners shall be connected by vulcanizing: Glazing of windows: Only window constructions with a double-sided front band and elastical sealing on both sides and/or with sealing profiles on both sides shall be accomplished. Glass beads shall only be screwed with wood windows. Glass beads shall be provided with the same solidity with other window constructions. The glazing recommendations of insulation glass manufacturers shall be strictly observed. Glass types are for: Bedrooms, kitchens, game room, room for telephone, corridor, stairwell windows and offices and/or storage rooms: e. g. Isolar Neutralux classic, article no. 101 Bathrooms, latrines, janitor's closets, rooms in basement (without offices) and rooms in attic with storage bin rooms for soldlers: Isolar Slass type Rivalue 1.5 W/m² x K Exterior side float glass pane Texture 200 Exception: Fire protection glasses shall be installed in construction supervisory tested construction. Specifications: The designer shall specify the windows as an alternative acc, to the cirteria described in the following within a separate section of the specifications for determination of the price increase for this special construction. Glass types are for: Bedrooms, kitchens, game room, room for telephone, corridor, stairwell windows and offices and/or storage rooms: Bedrooms, kitchens, game room, room for telephone, corridor, stairwell windows and offices and/or storage rooms: Bedrooms, kitchens, game room, room for stelephone, corridor, stairwell windows and offices and/or storage rooms: Bedrooms, kitchens, game room, room for stelephone, corridor, stairwell windows and offices and/or storage rooms: Bedrooms, kitchens, game room, room for stelephone, corridor, stairwell windows and offices and/or storage rooms: Bedrooms, kitchens, game room, room for stelephone, corridor, stairwell windows and offices and/or storage rooms: Bedrooms, kitchens, game room, room for stelephone, corridor, st				
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Only elastomers such as EPDM are allowed as sealing profiles, corners shall be connected by vulcanizing: B Only window constructions with a double-sided front band and elastical sealing on both sides and/or with sealing profiles on both sides shall be accomplished. Glass beads shall only be screwed with wood windows. Glass beads shall be provided with the same solidity with other window constructions. The glazing recommendations of insulation glass manufacturers shall be strictly observed. Glass types are for: Bedrooms, kitchens, game room, room for telephone, corridor, stairwell windows and offices and/or storage rooms: e. g. Isolar Neutralux classic, article no. 101 B Glass types are for: B Bathrooms, latrines, janitor's closets, rooms in basement (without offices) and rooms in attic with storage bin rooms for soldiers: Isolar Neutralux classic, article no. 101 B B Class types are for: B Exterior side Toward 15 W/m² x K Exterior side Toward 15 W/m² x K Exterior side Toward 15 W/m² x K Exterior glasses shall be installed in construction supervisory tested construction. Specifications: The designer shall specify the windows as an alternative acc. to the cirteria described in the following within a separate section of the specifications for determination of the price increase for this special construction. B Glass types are for: Bedrooms, kitchens, game room, room for telephone, corridor, stairwell windows and offices and/or storage rooms: B Glass types are for: Bedrooms, latrines, janitor's closets, rooms in basement (without offices) and rooms in attic with storage bin rooms for soldiers: B Class type are for: Bedrooms, latrines, janitor's closets, rooms in basement (without offices) and rooms in attic with storage bin rooms for soldiers: B Class type are for: B	Sealing profiles:			B 01
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Glass type insulation glass k-value 1.5 W/m² x K B				B 13
Glass type insulation glass k-value insulation glass B	Article	Noutralux classic US		
k-value 1.5 W/m² x K				
I —	* *			B 14
	Exterior side	float glass pane		
Texture 200	Texture	200		
				D 4 E
B				B 15

		SOURCE	
Dan a admirationa		SOURCE	B 01
laminated glass pane 8 mm (2x4 m	6 mm, 12 mm gas filling, interior pane as nm), a foil 0.38 mm inserted in between the		
two. Total thickness approx. 27-28 mm exterior side of the window)	. (Metal-coated side shall be installed on		B 02
Hardware: All operational wings shall be generated.	ally equipped with turn/tilt hardware.		B 03
The hardware shall be selected aclower hardware class (weight class)	cording to the wing weight. Selection of a ss) is unacceptable.		
Turn/tilt hardware shall have the foll	owing minimum functions:		B 04
Turn/tilt hardware with variable gear			
Hardware Handle with lock	concealed with single lever operation concealed screw fastening		B 05
Locking pin and double			
retaining devices	adjustable		
Corner bearing with lift-out protection	adjustable		B 06
Maloperation protection	·		
for each wing shall have a window lock	gear ing device - opening limiter		
cach wing shall have a window lock	ing device opening innite		B 07
Window handles:	\#=! = D		
Product Article	VIELER ER.US.FG.525.F10		
Alternative makes are:	DORMA, FSB		B 08
Window sills (exterior):			
	shall be of powder-coated aluminum, color		D 00
adapted to windows.			B 09
Window sills shall be provided with downstand to prevent soiling of the	h lateral upstands, sufficient projection and facades.		
If window sills at the building are to	be maintained e.g. cast stone window sills		B 10
	fective window sills shall be replaced acc. to		
Window sills (inside) are required in all rooms, as required and described in		B 07.1.1.3	B 11
Transom Windows		Page 75	
	ded in case of existing window openings		D 40
exceeding 1/10 of the room floor a window openings.	area plus frame elements or extremely high		B 12
unident eperimige.			
	ed to the window arrangement. Transom igned - if the size is adequate - as turn/tilt		B 13
	d with "USAREUR" upon commencement of		
design.			B 14
			D 45
			B 15

	SOURCE	
Type 1:	OOOROL	B 01
Recommended type (Fig. 07.38)		
Type 1A: Recommended window type for buildings under monument preservation, the number of bars can be varied (Fig. 07.39)		B 02
The execution shall be coordinated with "USAREUR" prior to commencement of design.		B 03
		B 04
Fig. 07.38 Type 1 Fig. 07.39 Type 1A		
		B 05
		B 06
		B 07
		B 08
0 K F		В 09
		B 10
		B 11
Windows up to a width of 1.25 m shall be provided without post. Windows of more than 1.25 m width shall have a post, both wings shall be turn-tilt wings		
then. Windows up to width of 0.90 m shall be provided as one-wing windows.		B 12
Recommended window heights up to approx. 1.30 m, windows of more than 1.30 m height shall have skylights. (See Page 185).		B 13
		B 14
		B 15

	SOURCE	
Type 2: Recommended type (Fig. 07.40)		B 01
Type 2A: Recommended window type for buildings under monument preservation, the number of bars can be varied (Fig. 07.41)		B 02
The execution shall be coordinated with "USAREUR" prior to commencement of design.		B 03
		B 04
Fig. 07.40 Type 2 Fig. 07.41 Type 2A		
		B 05
		B 06
		B 07
		B 08
X = MIN. ABSTAND SE		B 09
X = MIN. ABSTAND min. spacing Solution OKF X = MIN. ABSTAND min. spacing OKF		B 10
		B 11
Windows up to a width of 1.25 m shall be provided without post. Windows of		B 12
more than 1.25 m width shall have a post, both wings shall be turn-tilt wings then. Windows up to width of 0.90 m shall be provided as one-wing windows with a skylight.		B 13
y 		
		B 14
		B 15

	SOURCE	
Type 3: Recommended window accomplishment in the area of bathrooms (Fig. 07.42).		B 01
Type 3A: Recommended window type for buildings under monument preservation, the number of bars can be varied (Fig. 07.43)		B 02
The execution shall be coordinated with "USAREUR" prior to commencement of design.		B 03
		B 04
Fig. 07.42 Typ 3 Fig. 07.43 Typ 3A		B 05
		B 06
		B 07
55.		B 08
OKF OKF		B 09
		B 10
		B 11
		B 12
		B 13
		B 14
		B 15

USAREOR - Restoration Frogram of	Troop Billets - Standard 1+1		
		SOURCE	
The US Army provides cui	ision Screening / Protection against Splinters rtains and/or side curtains in rooms as vision as catch elements for glass splinters coming off. ed for this purpose.		B 01
	stalled in the following rooms : mud room, laundry; ns, latrines, storage bin rooms for soldiers.		B 02
B 07.4.13.1.1 Curtain track Track structures shall be more following.	unted to and/or in the ceiling as described in the		B 03
	, interior guide track consisting of white PVC with		B 04
white PCV coating. Execution spacings at covering rails. En	d glue. 50 mm high trim made of plywood with n with 3 continuous covering rails with enlarged rail and pieces on both sides as well as 25 small plastic at they do not have to be removed for washing of		B 05
Moreover, 2 x 90° bends shall wall. The track shall be mour wall. Curtain tracks covering	I be provided at the ends for return of tracks to the need onto the ceiling with spacings of 20 cm on the the entire room length shall not be installed. The w by approx. 20 cm on both sides.		B 06
the substructure for curtain t shall be made of C-profiles a	racks, as far as suspended ceilings are required, and installed above suspended ceilings with Nonius		В 07
suspenders as well as appropulation location / cur	tain tracks of all rooms without bathrooms,		B 08
corridors and staircases Product Article No.	MHZ 01-6112		B 09
recess-mounted in the ceiling	n tracks of all bathrooms, corridors, staircases , e. g. (in bottom GKB-panel of bathroom, or flush		
mounted) Product in bathroom	MHZ article no. 2434, color 171, width 92.5mm		B 10
in corridors/staircases Material	article no 2424, color 171, width 66.5mm Aluminum		B 11
tracks in bathrooms shall proj	and staircases extend from wall to wall. Curtain ject the window opening by 25 cm to the left and to		
the right.			B 12
B 07.4.13.1.2 Curtains-Sid	e Curtains		
	and specified in the course of this project. A 'shall be included in specifications. No other		B 13
building elements shall be sp	pecified in this section. It is to be stated within my reserves the right to furnish and install the		B 14
			B 15

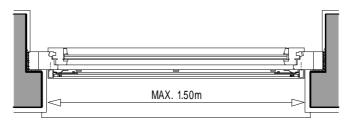
			SOURCE	
Curtains shall reach until 15 cr shall be led to the wall in co window opening by at least 25	urves and fastened.	Curtains shall project the		B 01
ends in bathrooms. Curtains shall overlap at lea specified with the total width as				B 02
The real estate administration shall not be changed within on		om the color card; the color		B 03
Curtains shall be installed in: bedrooms, kitchens, game storage rooms, bathrooms, I		elephones, office and/or		B 04
To be installed:				
Product Article	COLUMBUS Optimal			B 05
Curtain weight Tensile strength	300 g/m ² chain approx. 450 N			
Restkrumpfung Material class	Schuss approx. 350 approx. 0 – 0.5% B1	IV	DIN 4102	B 06
permanent	hardly inflammable a	acc. to DIN 4102	DII 4102	B 07
Alternative products are:	BRICHTA DELIUS			B 07
Article No. and colors	see	list of equivalence color list	B 08 Page 197-198	B 08
				В 09
				B 10
				— B 10
				B 11
				B 12
				B 13
				B 14
				B 15

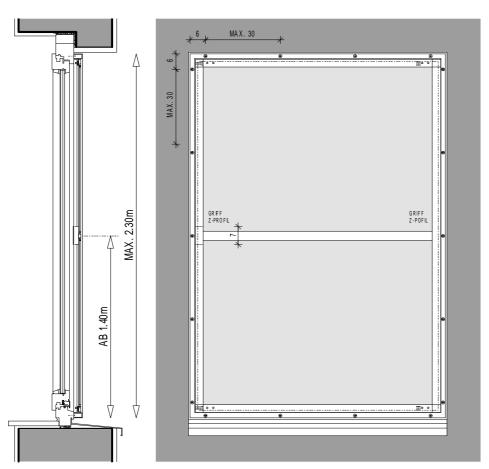
B 07.4.13.2 Insect protection:

Insect protection shall be installed at all windows – **except** stairwell windows, corridor windows, mechanical rooms, storage bin rooms in attic and basement windows. Accomplishment acc. to **Fig. 07.44.**

Windows shall be provided with an insect protection on exterior side. The bracing frames shall be accomplished in aluminum powder coated, basic frame made of aluminum rectangular pipes welded to corners (color shade adjusted to windows). The interior constructions shall be constructed easily removable (due to later renovations). Fastening to blind frame and/or settling wood. The bracing made of non-rottening fiberglass fabric with high light passage.

Fig. 07.44 Insect protection





SOURCE

STPL I3 001 00G

B 01

B 02

B 03

_ _

B 04

B 05

B 06

B 07

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B 09

B 10

B 11

B 12

B 13

B 14

B 15

USAREUR - Res	toration Program of Troop Bil	lets - Standard 1+1			
_				SOURCE	
В 07.5	SIGNAGE				B 01
		g, shall be procured as part on sist of one signage system			B 02
		nibold shall be used, excep e; then this shall be accompli			В 03
B 07.5.1	General Signage				
	d German regulations	dent protection shall be ins – as far as required in acc			B 04
В 07.5.2	Door signs – entrar	ices rooms			B 05
	_	g, for insertion of a printed s	sheet 180/180		
mm, invisible		nber engraved or screen-prin			В 06
	own in Fig. 07.45 se n shall be installed.	rves as reference for desig	ın, the above		
Product		GWE Grafische Werkstäte	Eppstein		B 07
		65 817 Eppstein Am Herrngarten 12			
Dimension		180/180 mm			B 08
Article No. Frame color		17.198 NCS S 1502 – Y50R			
Mask model s Article No.	software	for MS-Word Version 7.0/8. 18.808	0		B 09
Fig. 07.45					B 10
4	\$10*	1			
		Bilintaire directed Dumber & Sed			B 11
1-LO	114 🏻 🛢	134*			
		- th			B 12
9-1/2*	Edward R. Brown, Staff Sargent, TS/CPM				
	Jonathan M. Jones, Base Commander	L-10° Wheleve Arrestmoletus 1-50° Shoot			B 13
		1			B 14
					B 15

DESIGN GUIDELINES

USAREUR - Restoration Program of Troop Billets - Standard 1+1

	SOURCE	
B 07.5.3 Function signs All doors of corridors to stairwells, main exits, staircase exits shall be provided with signs push or pull.		B 01
Product VIELER Article "pull" ER.US.TF.0632 "push" ER.US.TF.0633		B 02
"pull to open" is a special make		
All doors in corridors dividing the fire sections and/or smoke sections shall be marked in walking direction with "push" (ER.US.TF.0633) and on opposite side with "pull to open".		B 03
		B 04
Signs in dimension 24.5/24.5 cm		
subbase red NCS S 2070-R lettering white letter height 20mm		B 05
shall be installed to door leafs at door systems with arrester devices with following lettering:		
DO NOT PULL TO CLOSE USE SWITCH ON WALL		B 06
Signs in size and accomplishment same as described above shall be installed to tile walls above release push buttons with following lettering:		B 07
SWITCH		
TO CLOSE DOOR		B 08
An occupation sign, dimension and accomplishment same as above, shall be installed in game room of attic with lettering:		B 09
DAYROOM MAXIMUM OCCUPANTS 49		
Information signs with shape and lettering see (Fig 07.46) shall be installed in stairwells with more than 5 floors on each floor.		B 10
Subbase NCS S 7005-B20G Letter color white		B 11
Dimension: 24/24 cm		
Product GWE Grafische Werkstätte Eppstein 65 817 Eppstein Am Herrngarten 12		B 12
Article No. 17.000		B 13
		B 14
		B 15

USAREUR - Restoration Program of Troop Bi	llets - Standard 1+1		
		SOURCE	
Fig. 07.46			B 01
Stairway No. 3			B 02
Floor			
12			B 03
EXIT DISCHARGE LOCATED ON FIRST FLOOR			B 04
P5-NFPA 9' x 9', 12' x 12'			
			B 05
B 07.7.4 Symbol Pictograph	s	ŀ	
All latrine entrances shall be provarranged, as required.	rided with symbols. Pictographs can be		В 06
Symbols	VIELER / stainless steel		
or			В 07
Pictographs	HEWI ERCO or equal type		
If standard pictographs are requipictographs shall be used.	red e.g. (fire protection area), standard		B 08
B 07.5.5 Direct Lettering			
A room number shall be directly aproom doors.	plied with enamel paint, in the center, over		B 09
Size of numeral	8 cm		B 10
Type Color	Helvetica, medium-faced see color schedule	Page 202-203	
B 07.5.6 Building numbers			D 44
Each building shall be provided w	ith two building numbers on two building		B 11
corners, therefore, a total of four buil Execution as follows:	ding numbers per building.		
Size of numeral Type	20 cm Helvetica, medium-faced		B 12
Color	black		
			B 13
			B 14
			B 15

SOURCE B 01 B 07.5.7 Information systems Each building will be provided with information panels, consisting of aluminum boxes with a back wall made of steel, white and a single-pane laminated **B** 02 glazing, top-hung sash equipped with gas pressure openers, a lock and with at least 40 ea magnets. The back wall in top area shall be covered and lettered above the entire width on a height of 20 cm with foil. The real estate shall provide the LOGO. B 03 Fig 07.47 The number of information panels in building shall be coordinated with the real estate administration. Back wall white Top strip height 16 cm blue NCS S 3060-B **B** 04 Lettering white Product GWE Grafische Werkstätte Eppstein 65 817 Eppstein B 05 Am Herrngarten 12 Article No. 42.20, surface mounted installation Dimension: **B** 06 Width 1.50 m Height 1.00 m Depth 0.08 m **B** 07 Fig. 07.47 **B** 08 1-3/4" 1-3/4 2-Ply Acrylic Header w/ Vinyl Copy Bamberg Community **B** 09 6 & Full-Color Logo Information Center **B** 10 Cork Background w/Fabric Covering 361 **B** 11 Oak Frame **B 12 B** 13 **B** 14 **B** 15

OSANEON - Nestoration Program of 1	100p Billets - Staridard 1+1		
		SOURCE	
Information panels per floor	nstalled on every floor in the area of the kitchen		B 01
entrance, near the American to	elephone. Steel, white coated, deposit strip and 1 strip as a cleaning sponge.		
_	be installed in basement and attic.		B 02
Product	GWE Grafische Werkstätte Eppstein		
	65 817 Eppstein Am Herrngarten 12		B 03
Article No.	VC-30011		D 04
Color Dimension:	white		B 04
Width Height	1.20 m 1.00 m		
Starter kit	consisting of:		B 05
Article No.	cleaning sponge, magnets, 4 felt-tip pens VN 92020		
			B 06
Fig. 07.48			
			B 07
*	1.20 ★		
m			B 08
			D 00
1 3			B 09
			D 40
1.00			B 10
			5.44
			B 11
			D 40
			B 12
e.			D 40
			B 13
			D 44
			B 14
			B 15

SOURCE B 01 B 07.5.8 Fire Exit Plan Escape way plans shall be installed in each building. The signs consist of a two-shell plexiglass construction, the second shell with frame, lettered with a top B 02 border 15 cm wide, lateral and bottom a border with 4 cm wide NCS No. S 2070-R color shade lettering white serigraphy printing acc. to direction, a distance of 1.00 mm thickness, shaped and a back wall. Lateral open chase for insertion of plan B 03 made of thick plotting paper. Accomplishment see (Fig 07.48) Dimensions: Width/height 74cm **B** 04 GWE Grafische Werkstätte Eppstein Product 65 817 Eppstein Am Herrngarten 12 B 05 Fig. 07.48 **B** 06 Fire Exit Plan 1 /1 6" Matte Acrylic Face Plate w/ Sule unface Screened Graphics **B** 07 **B** 08 **B** 09 Large Cut-Out Fingertab in Back Plate **B** 10 S-1 /2" x 11" Slide-In Fire Fixit Plan **B** 11 \$-1A"h x 10-1/2"w Window Accommodates \$-1/2" x 11"Insert **B 12 B** 13

B 14

B 15